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In Re Application of:

Sweere et al.

Serial No.

09/920,924

Filed:

August 2, 2001

For:

METHODS AND APPARATUS FOR
GENERATING FORCE AND TORQUE

To:

Assistant Commissioner for Patents
Washington, D.C. 20231

Art Unit: 3632

Our Ref. 44374.5.1

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on this 7th day of May 2002

By:

Stacy Bickel

FORMAL DRAWINGS

SIR:

Transmitted herewith for filing in the above-identified patent application are sixty-eight (68) sheets of formal drawings to replace the corresponding informal drawings which were submitted with the patent application.

Respectfully submitted,

Dated:

7-MAY-2002

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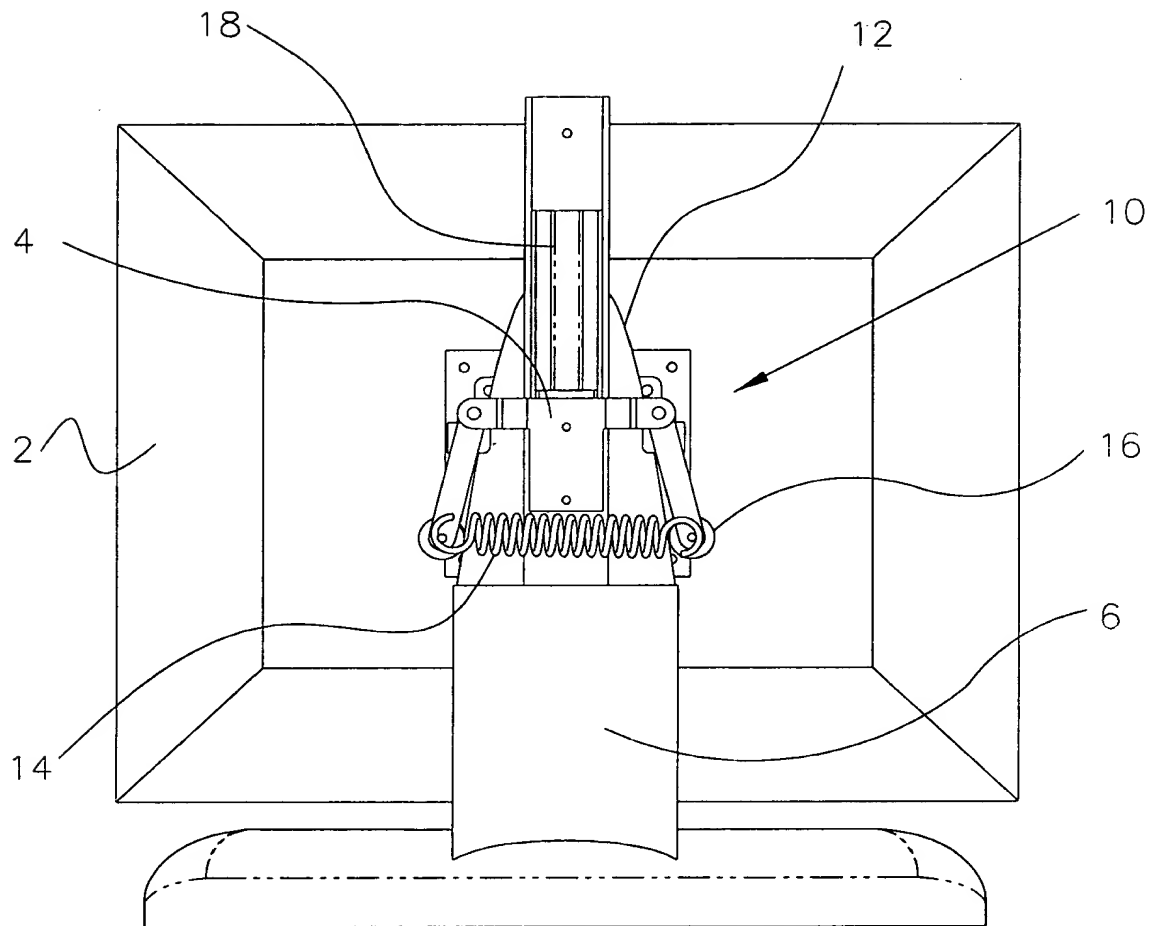


FIG. 1A



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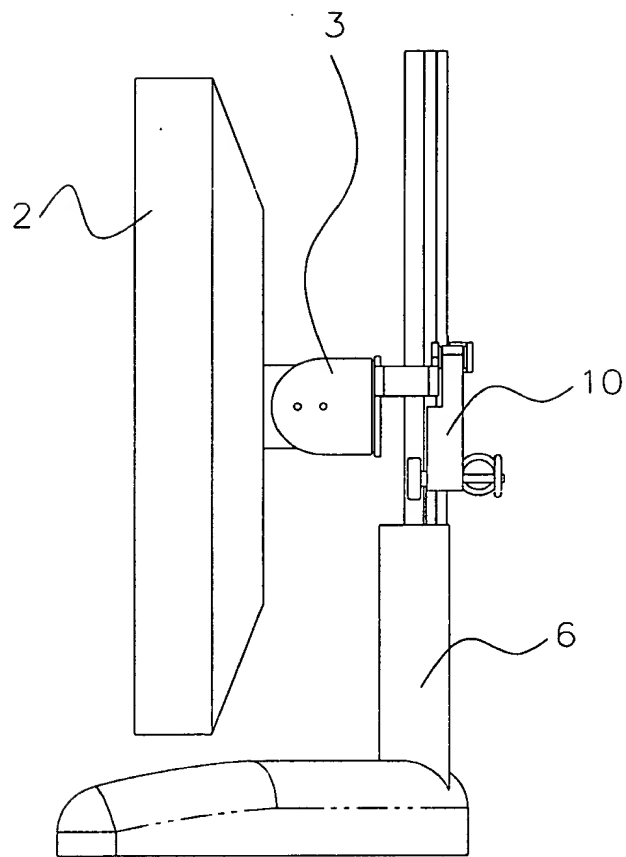


FIG. 1B



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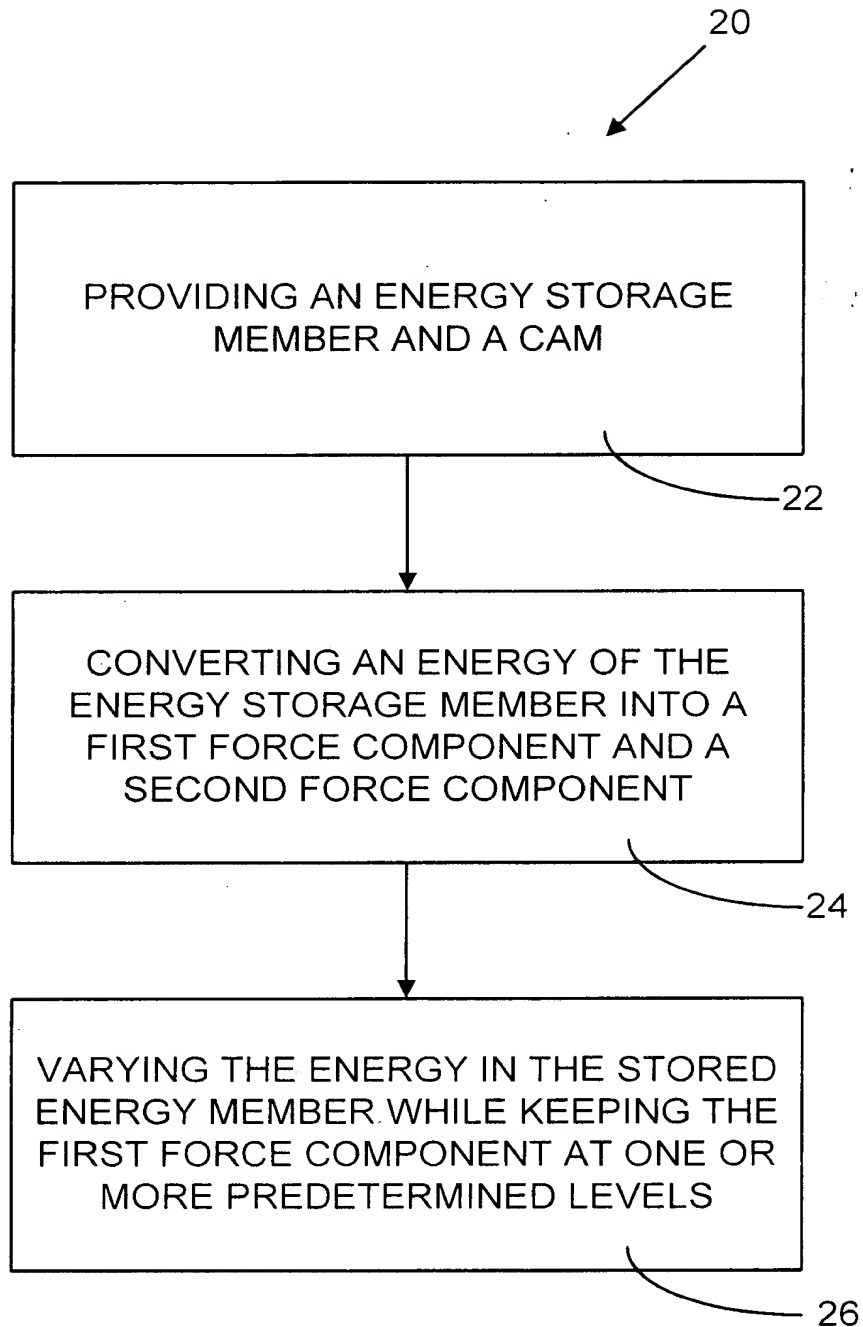
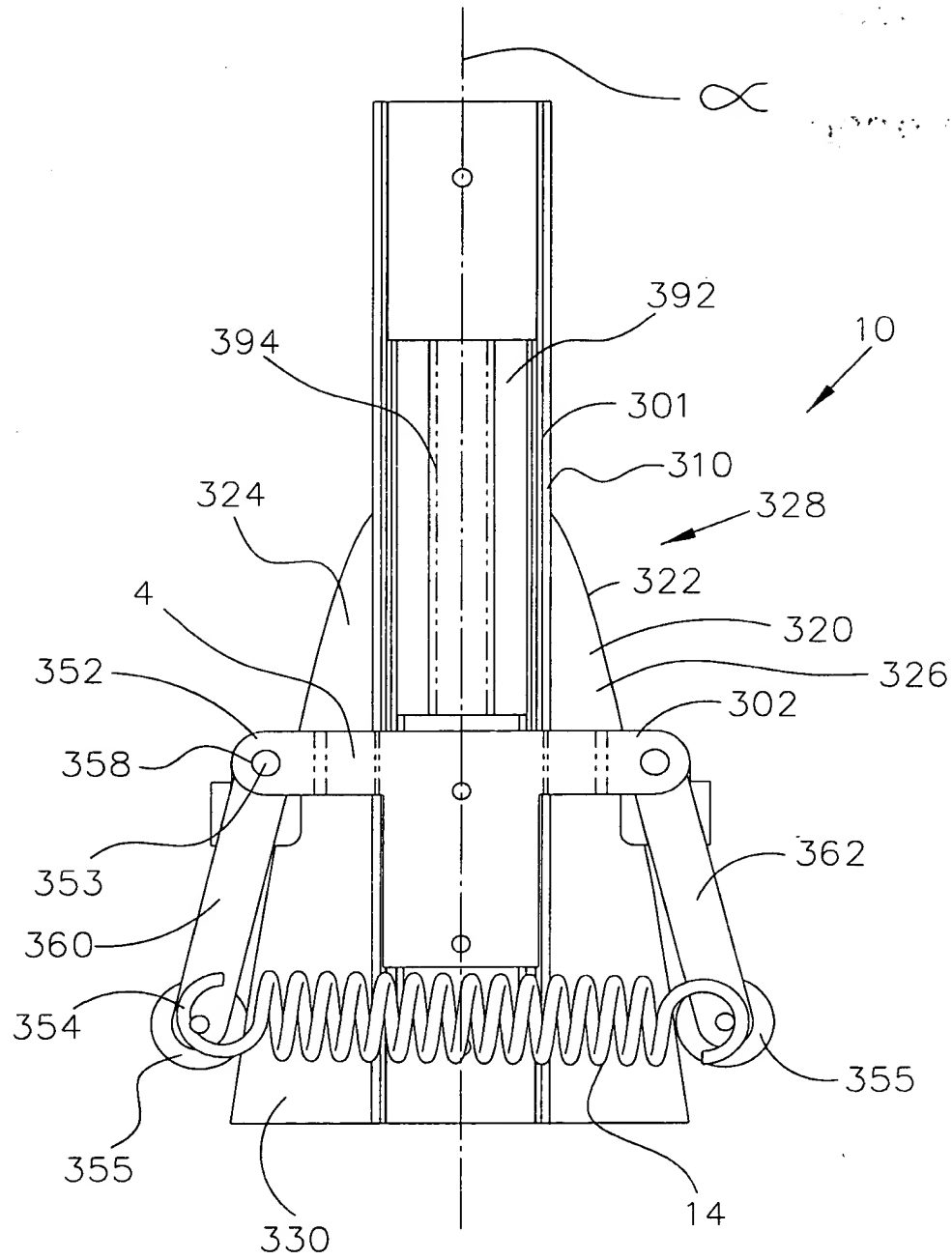


FIG. 2



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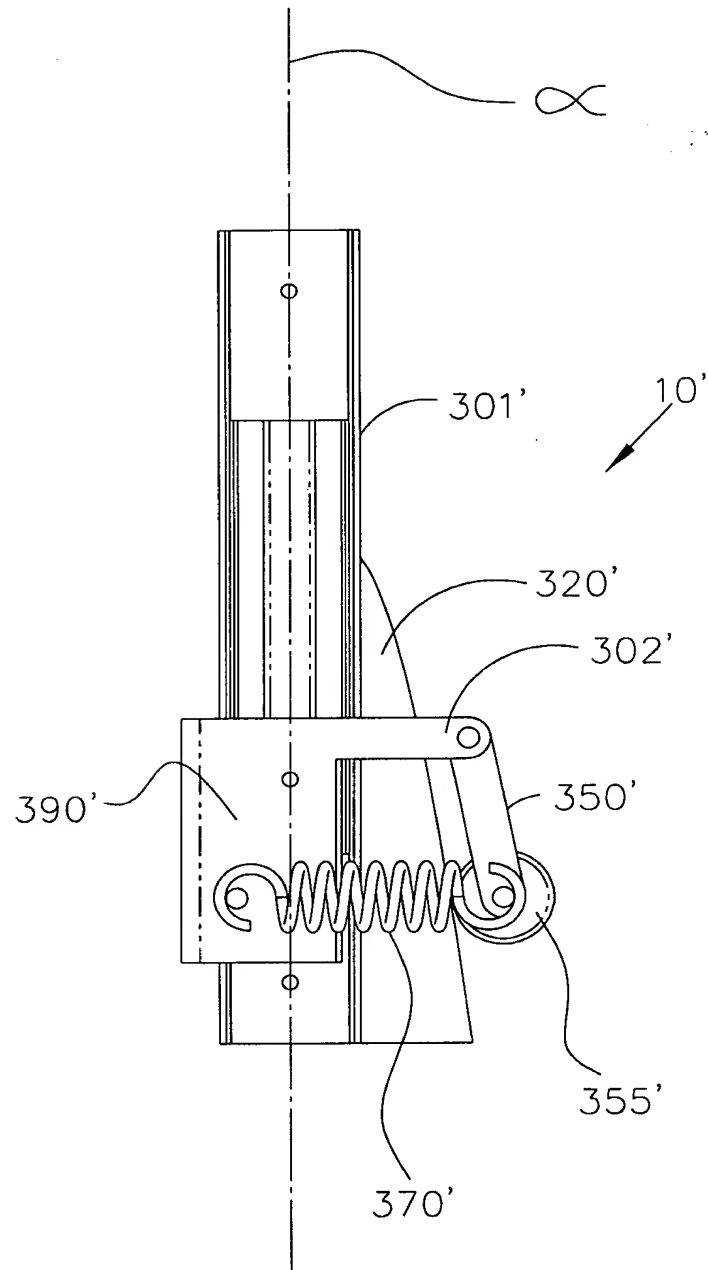
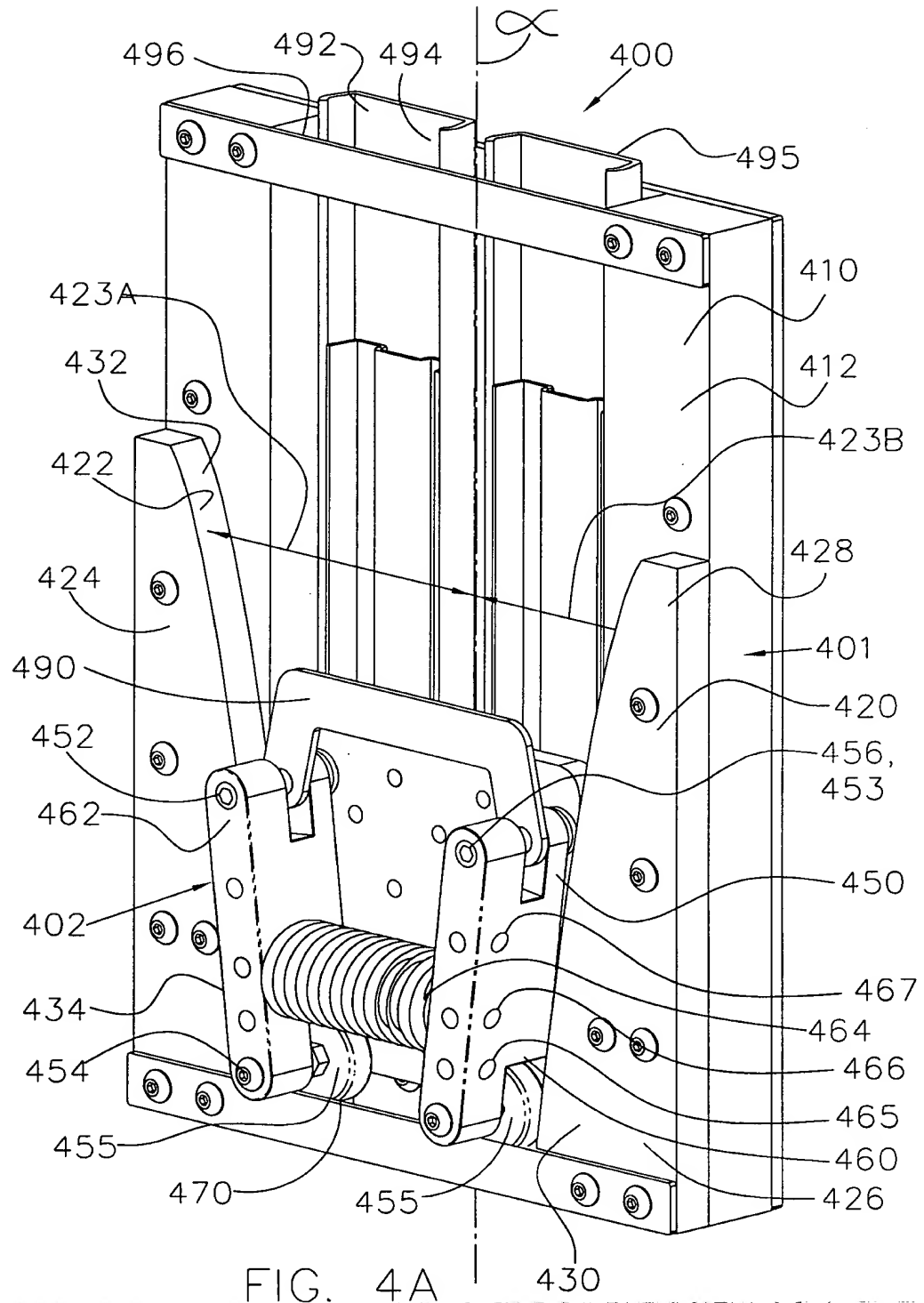


FIG. 3B



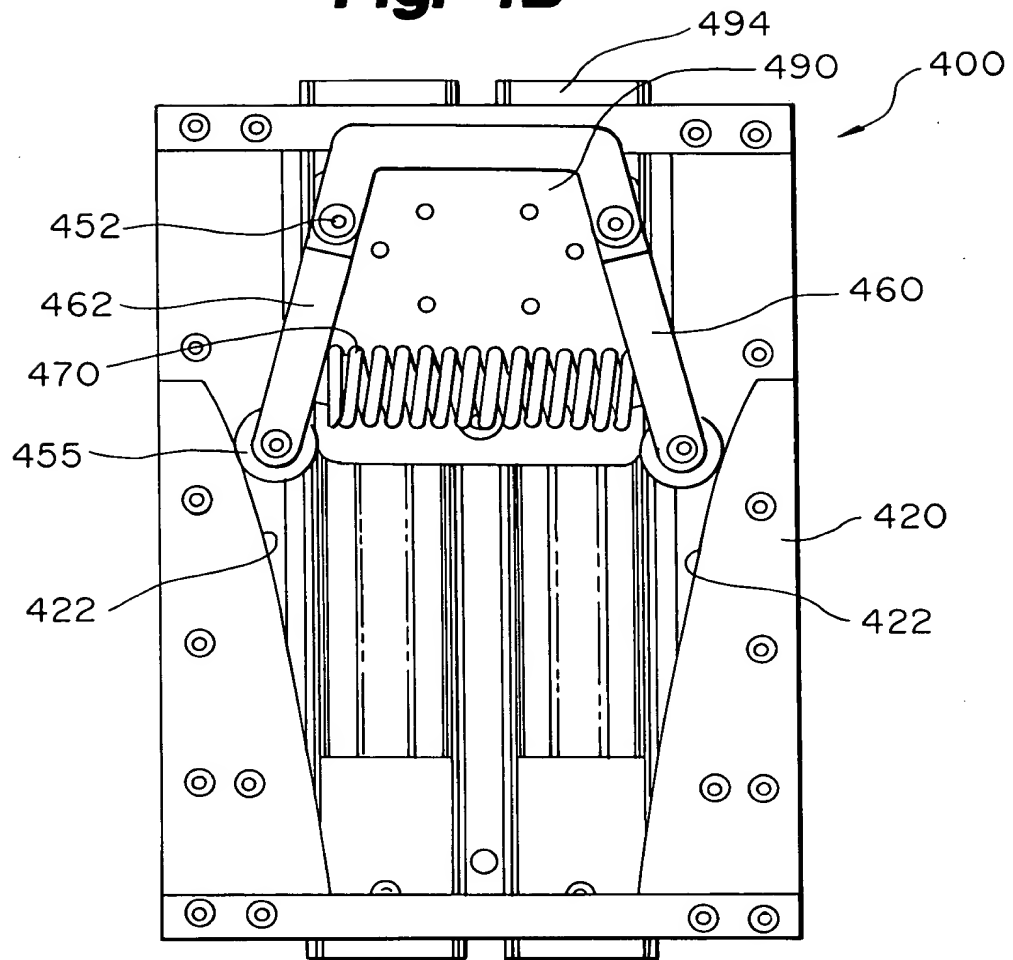
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Fig. 4B





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Fig. 5A

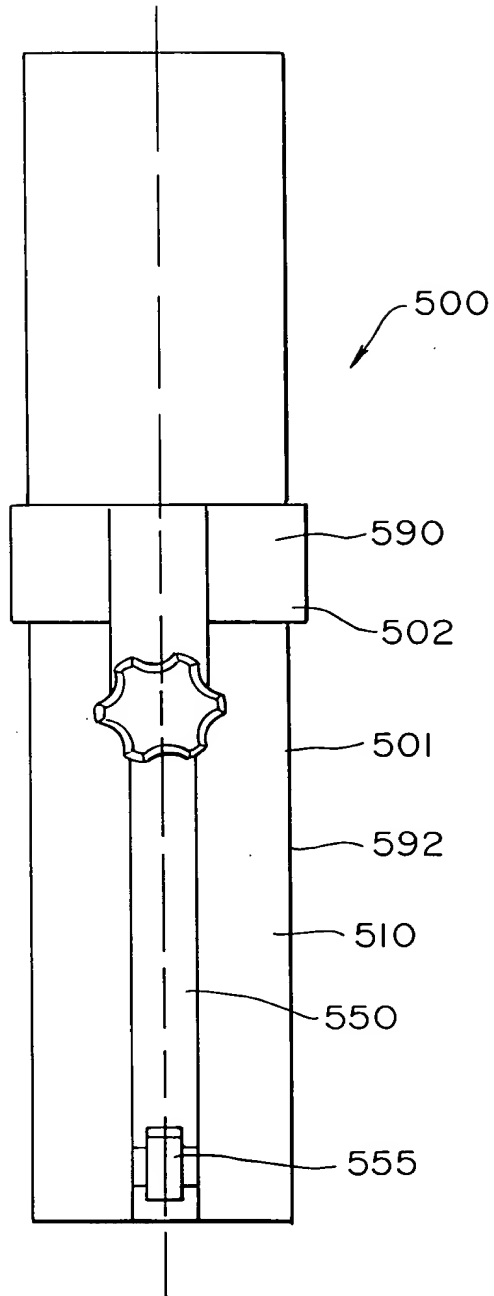
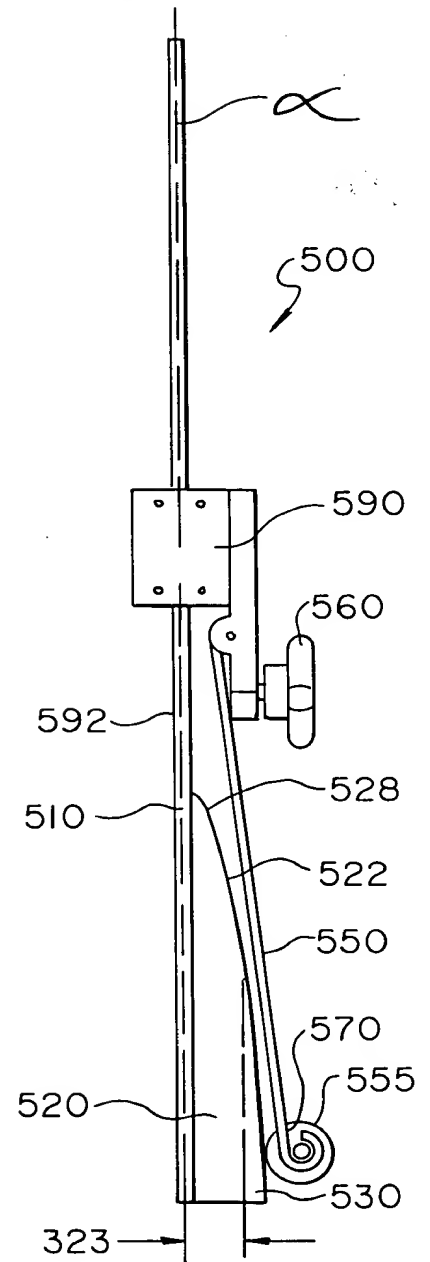


Fig. 5B

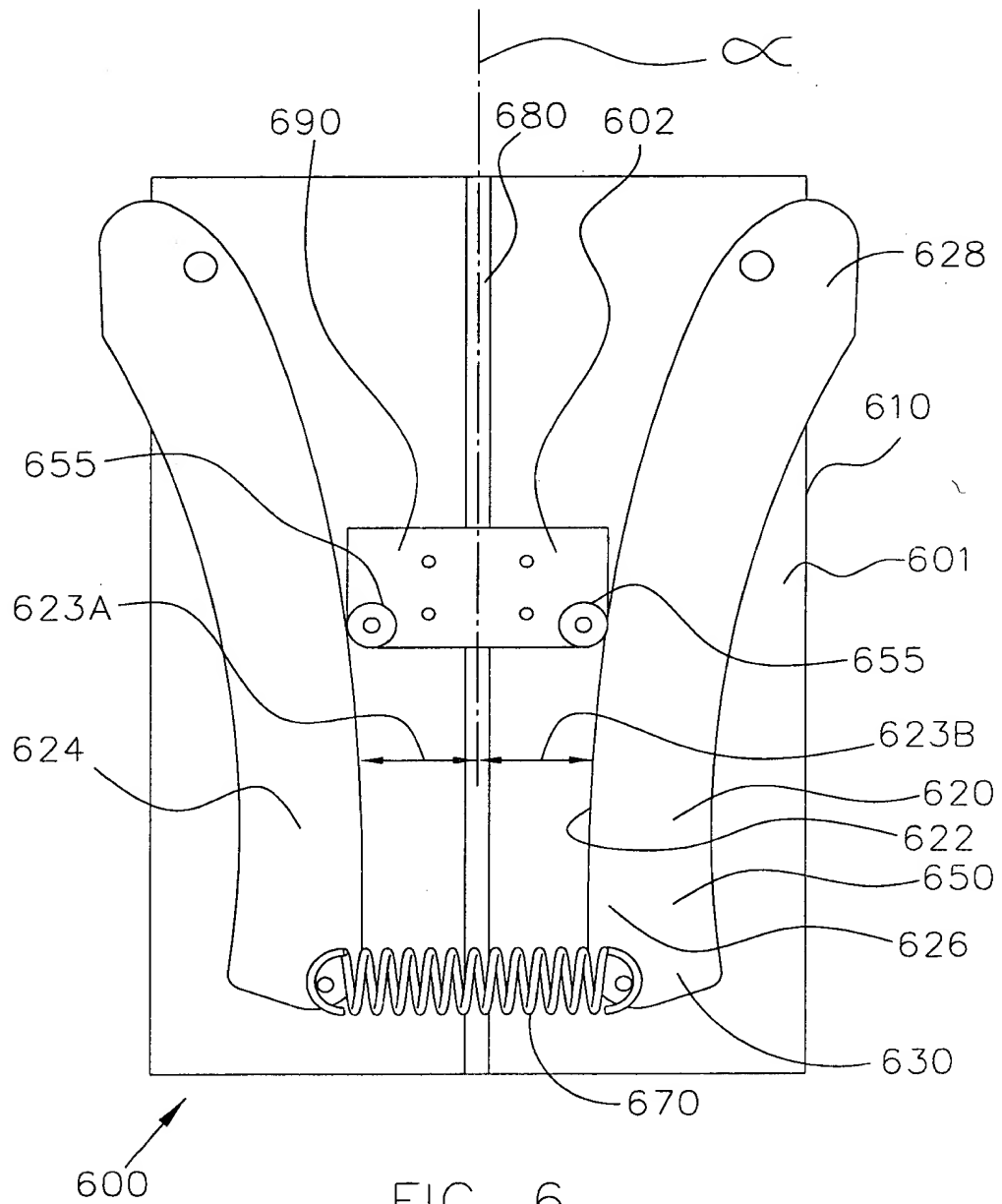




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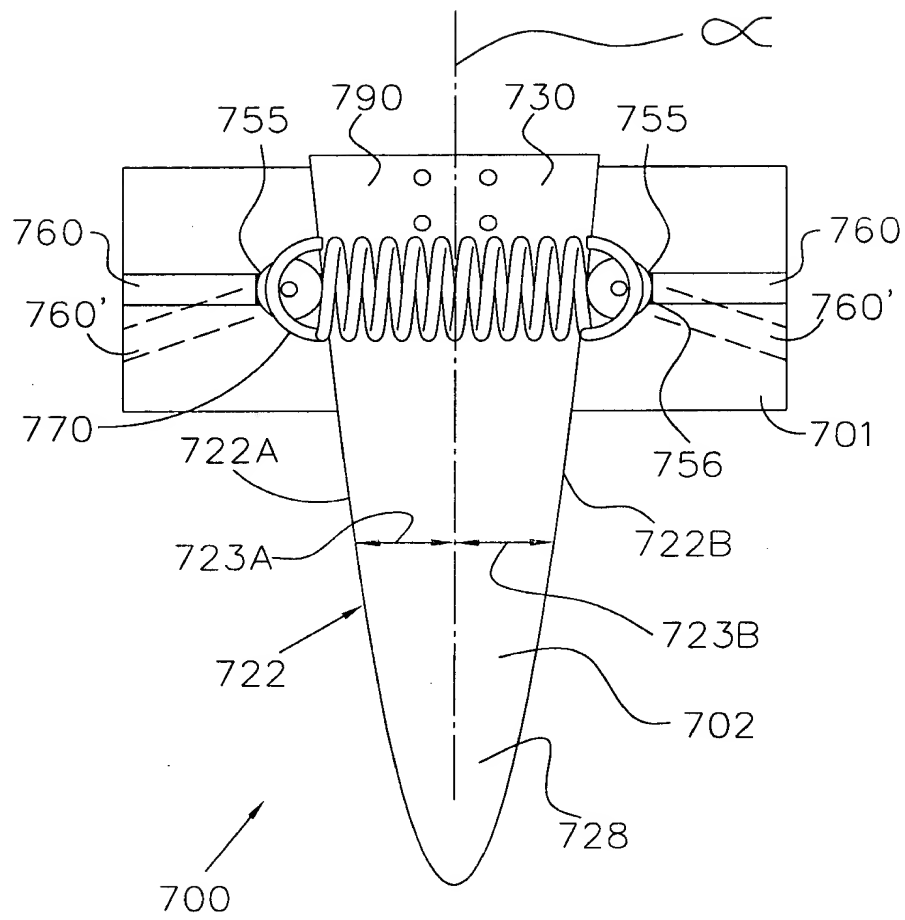


FIG. 7



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Fig. 8A

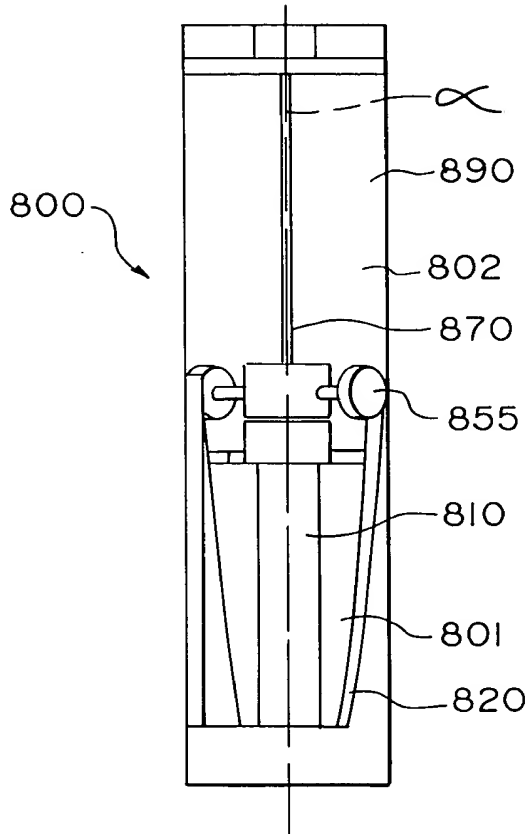
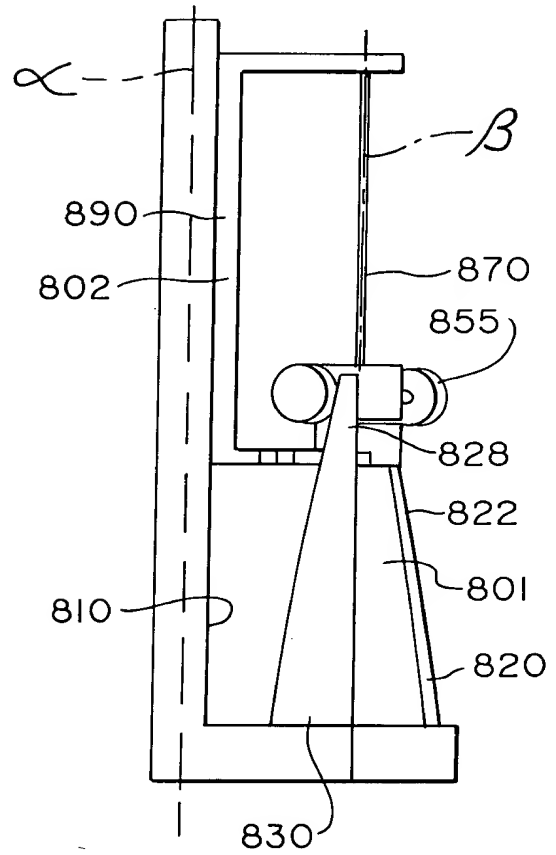


Fig. 8B





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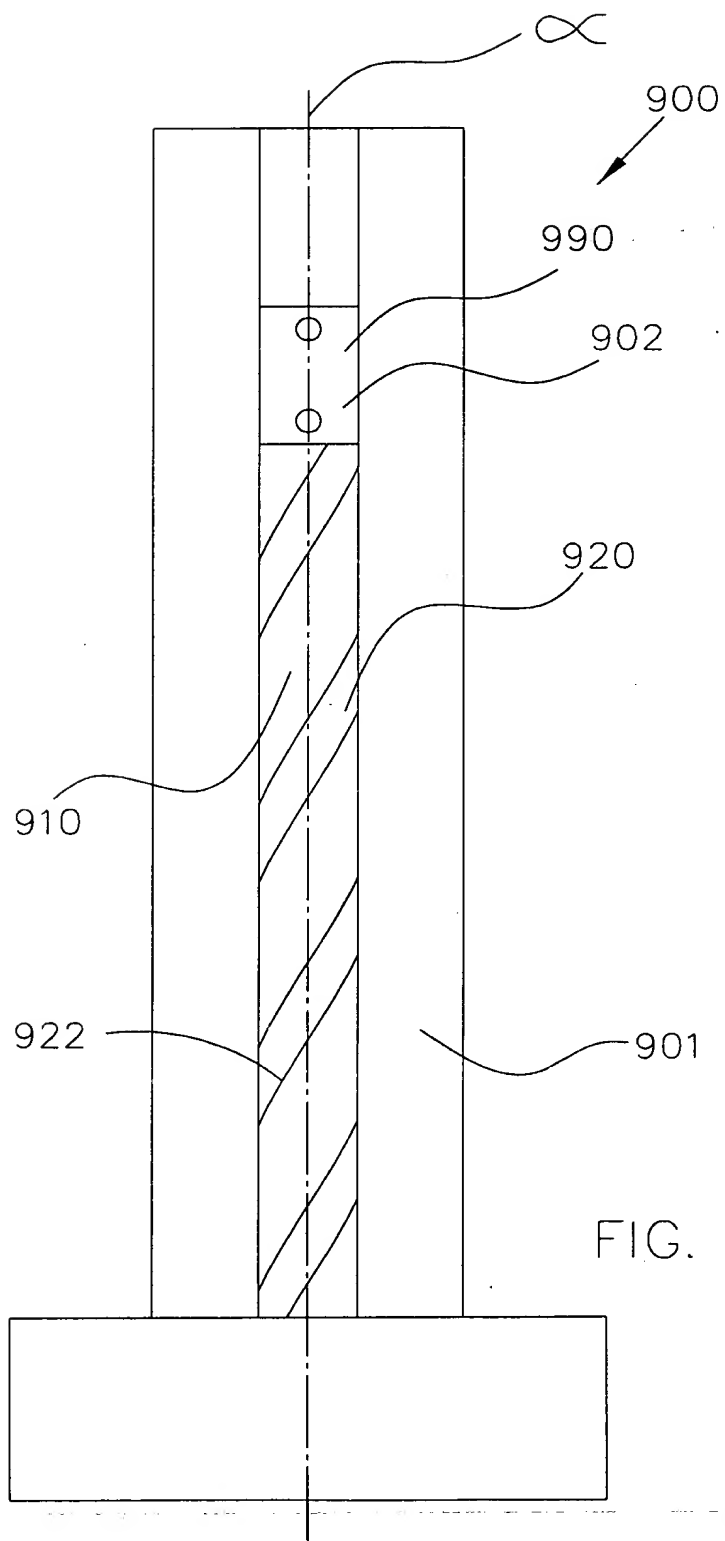


FIG. 9A



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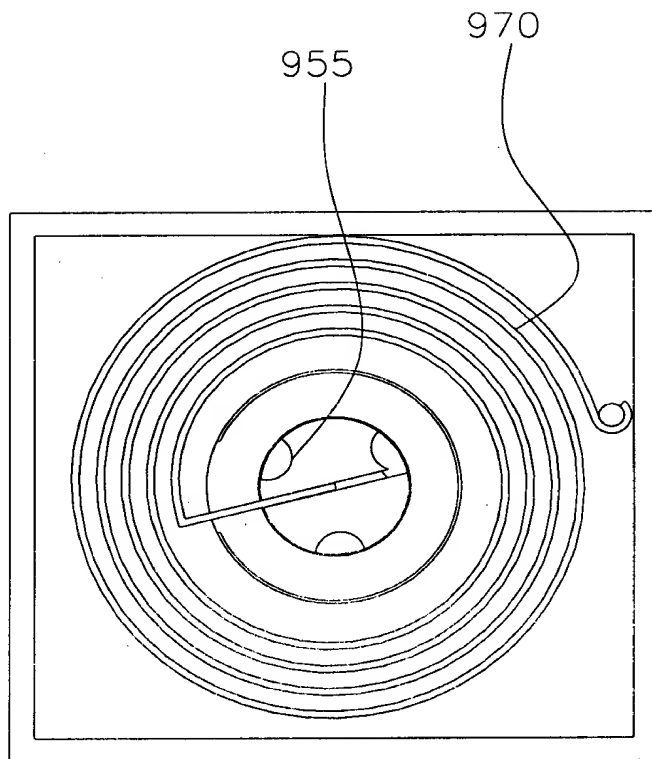


FIG. 9B



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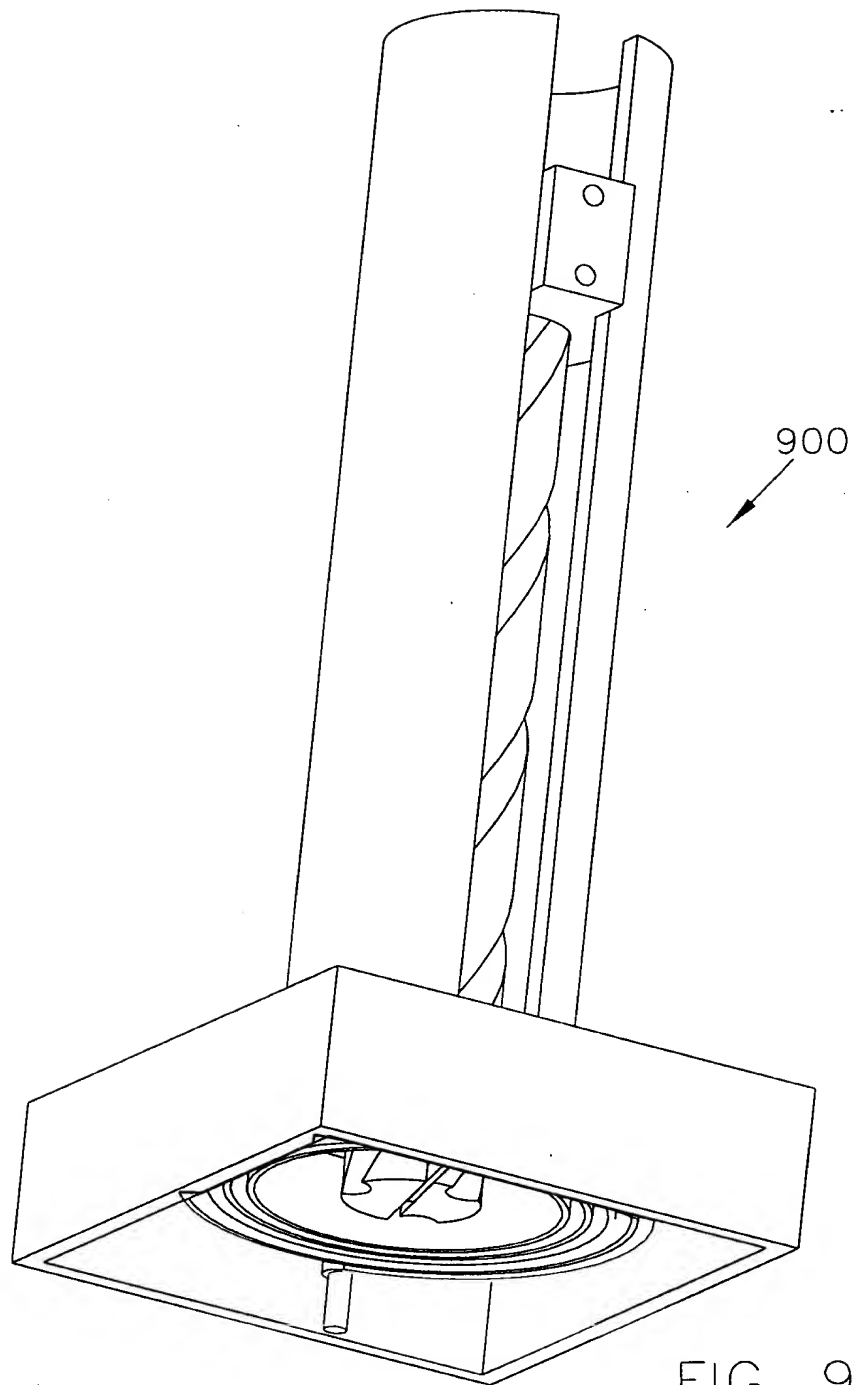


FIG. 9C



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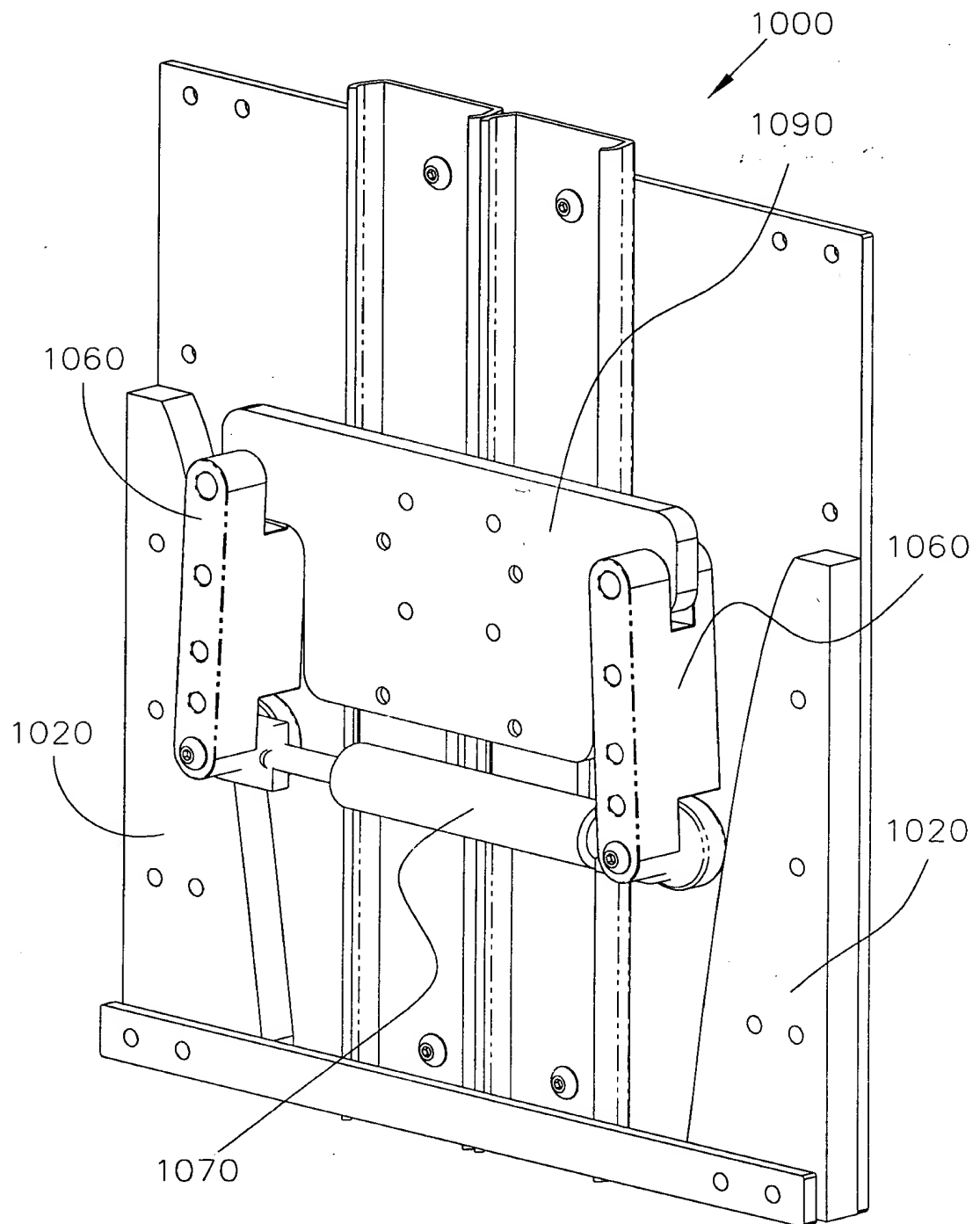


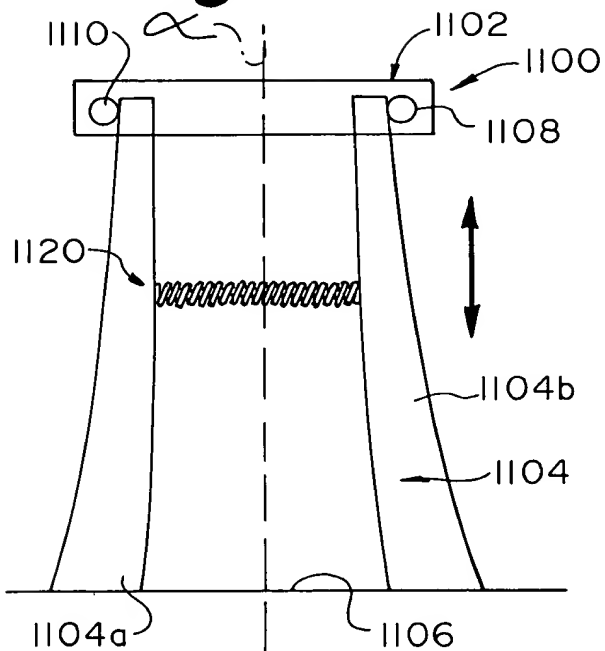
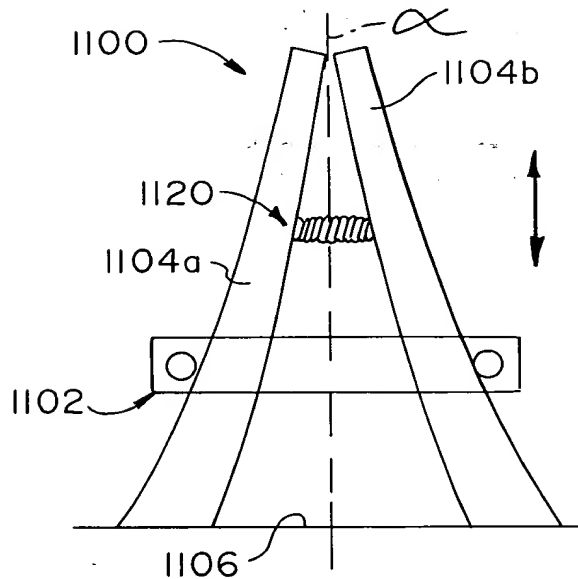
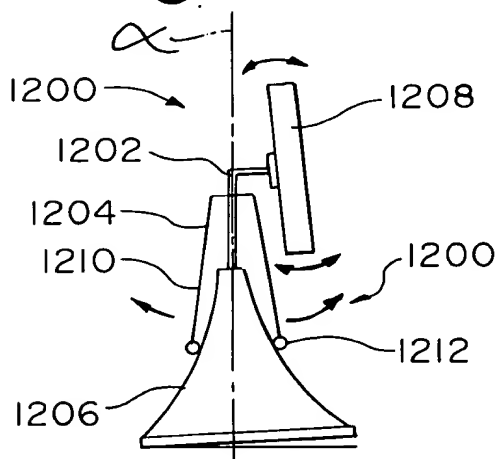
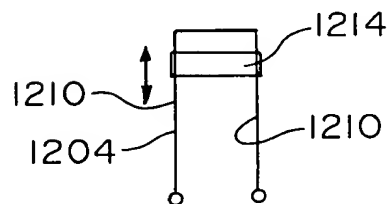
FIG. 10



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Fig. 11A**Fig. 11B****Fig. 12A****Fig. 12B**



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Fig. 13A

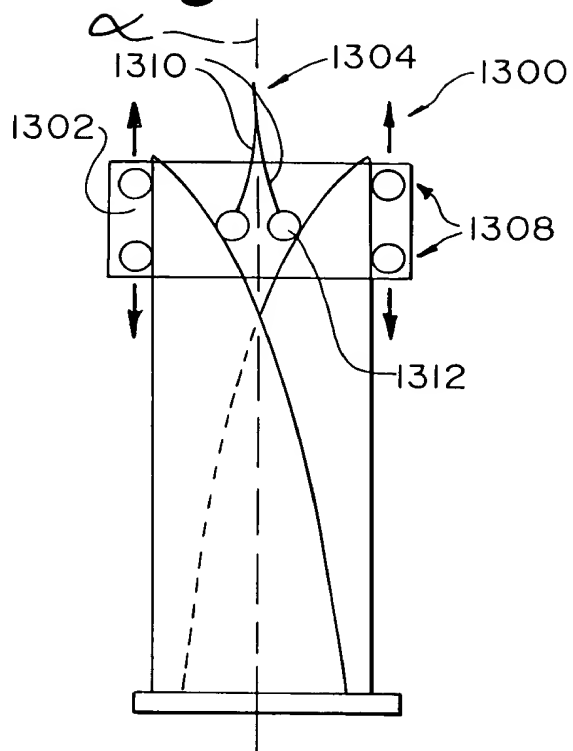


Fig. 13B

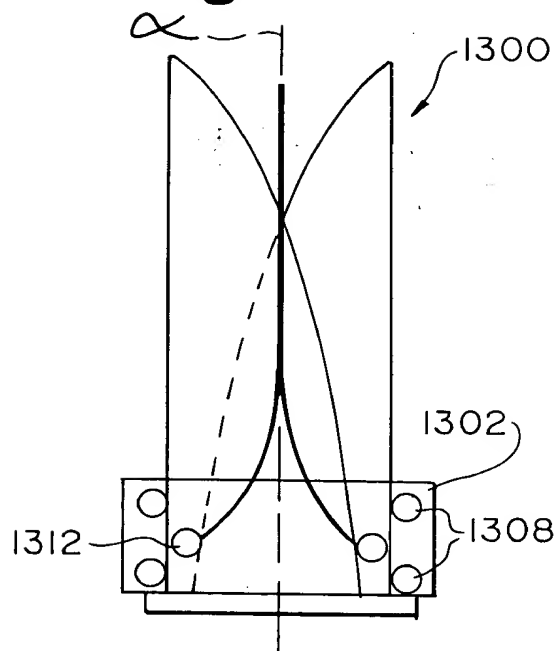
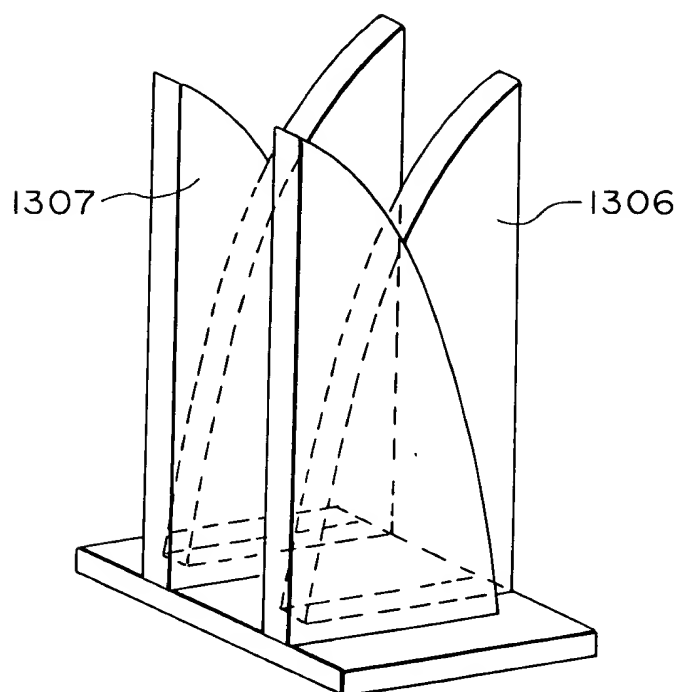
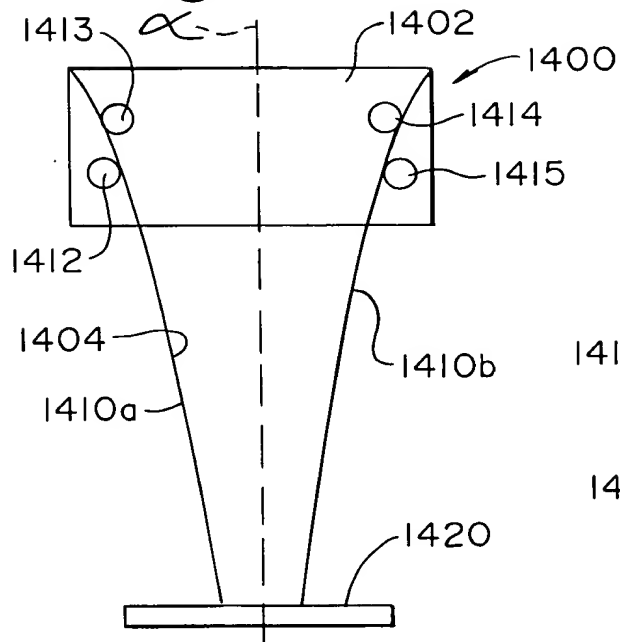
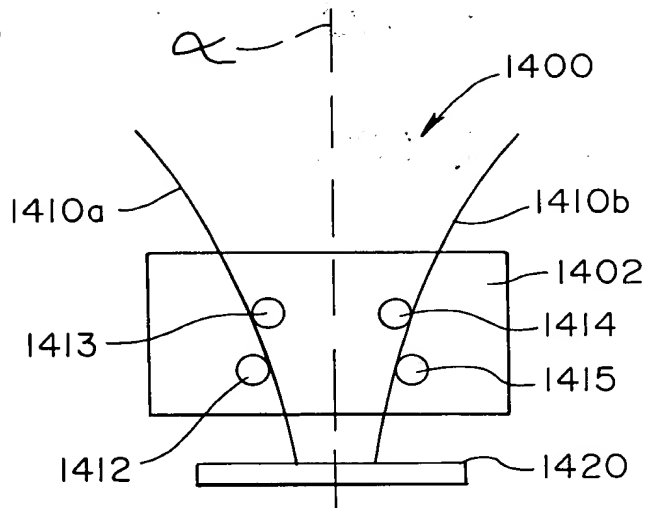
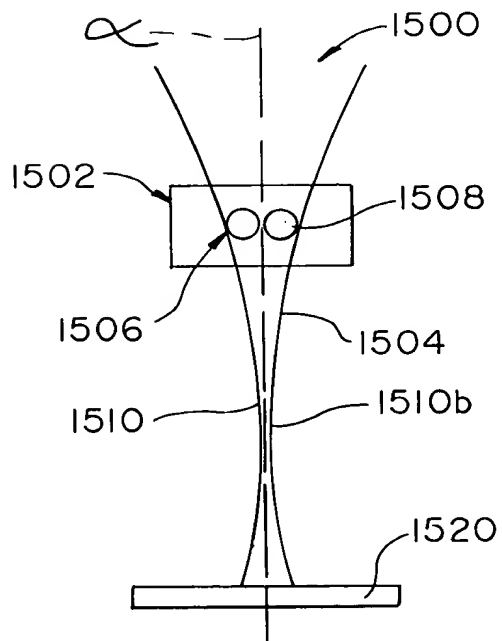
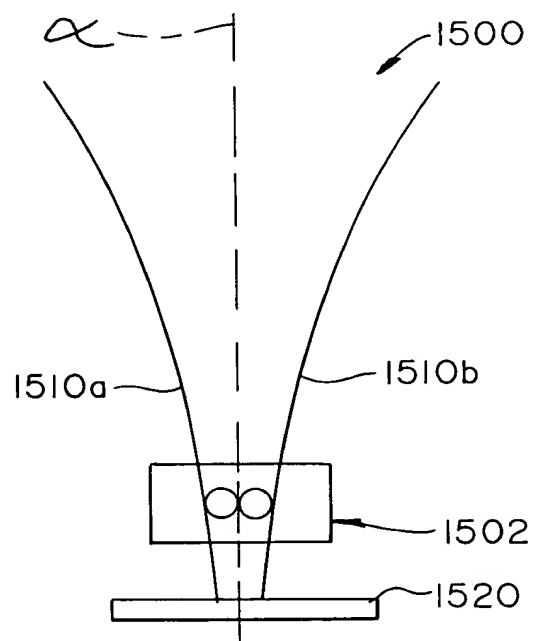


Fig. 13C





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Fig. 14A**Fig. 14B****Fig. 15****Fig. 16**



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Fig. 17

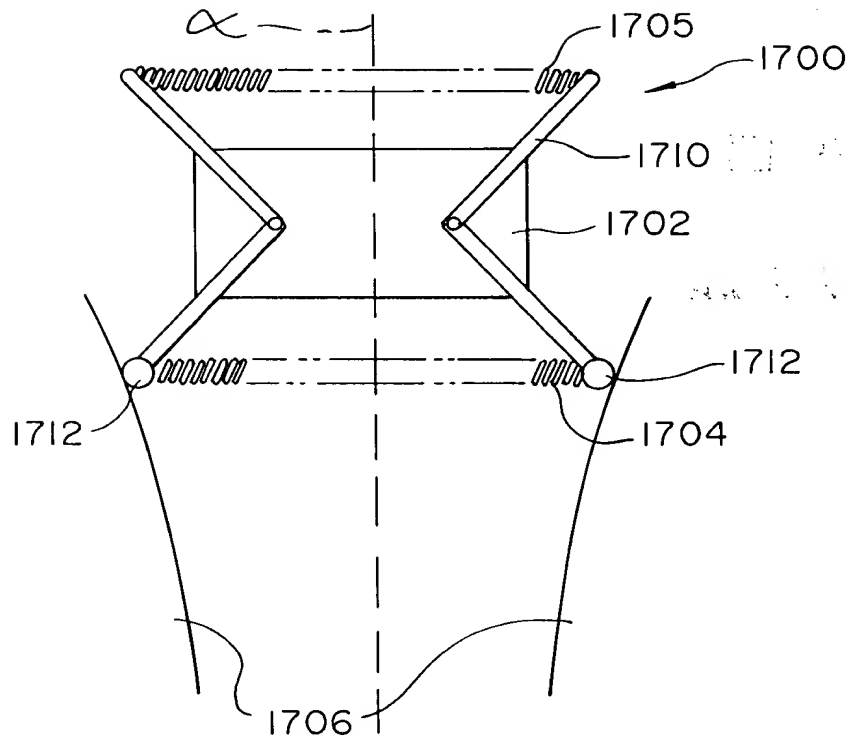
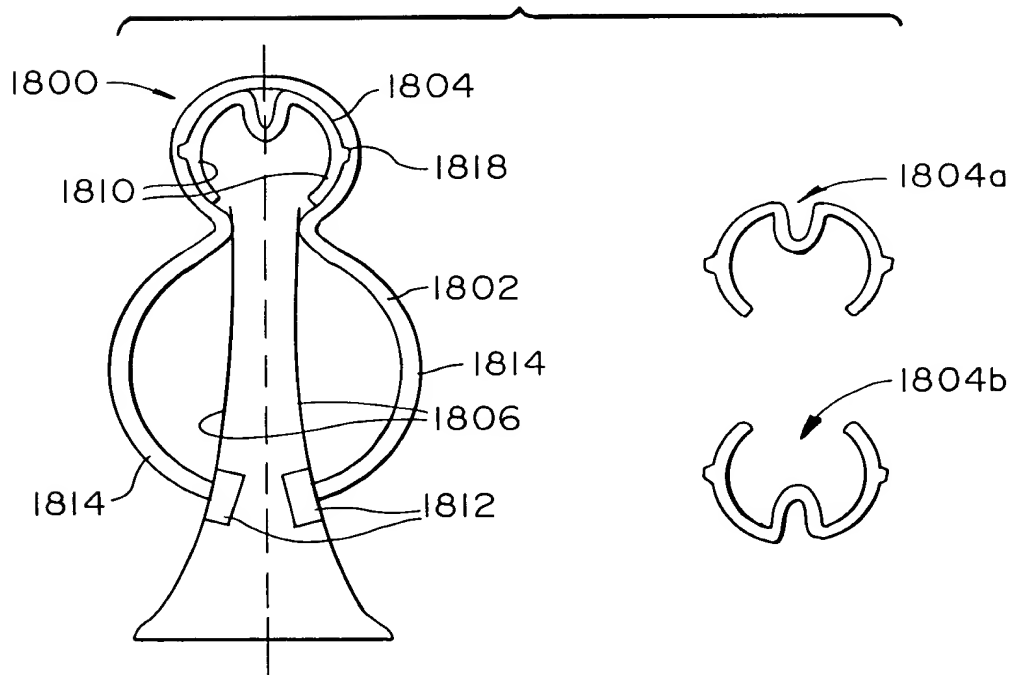


Fig. 18

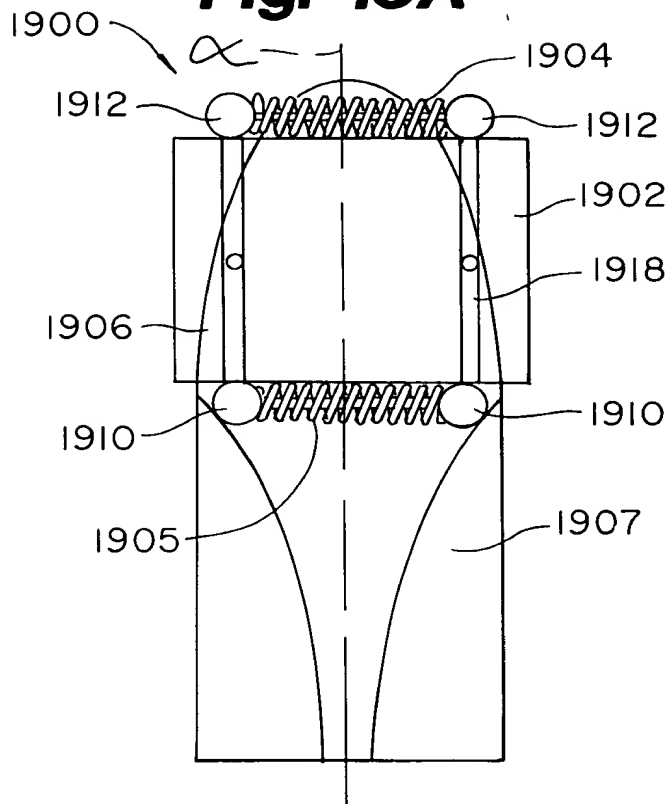
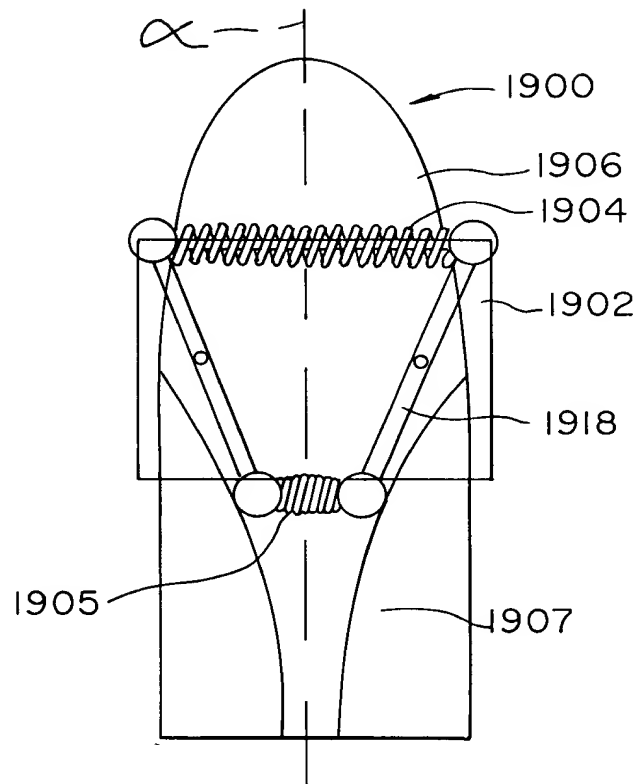




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Fig. 19A**Fig. 19B**



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Fig. 20

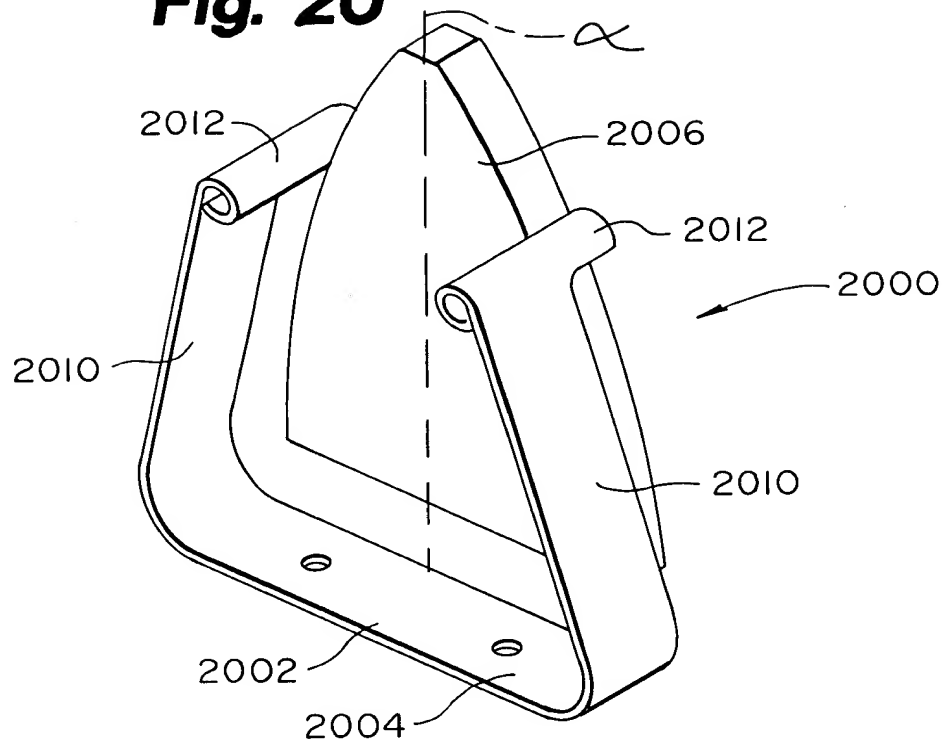


Fig. 21A

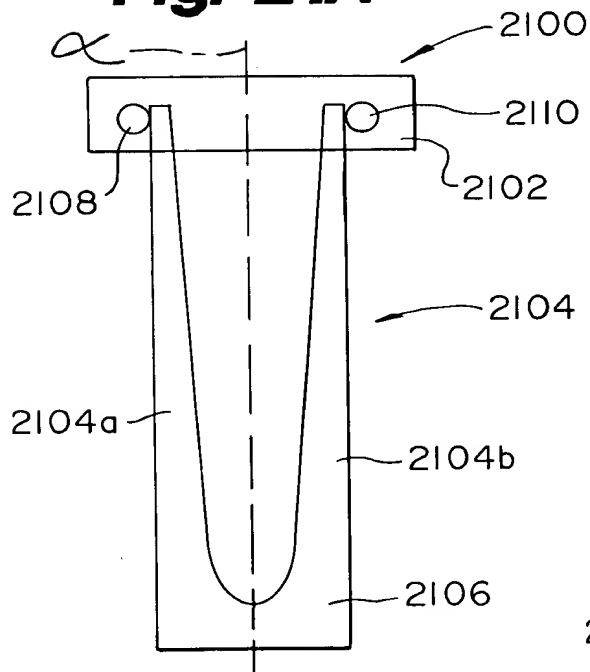
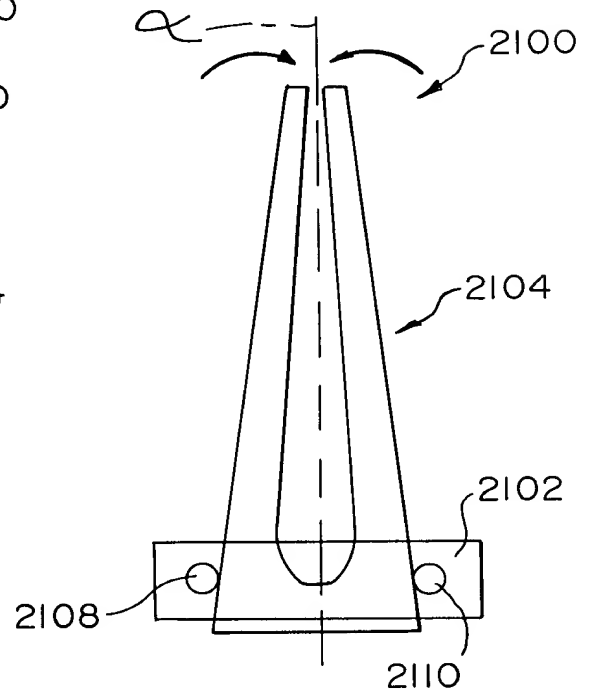


Fig. 21B





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Fig. 22A

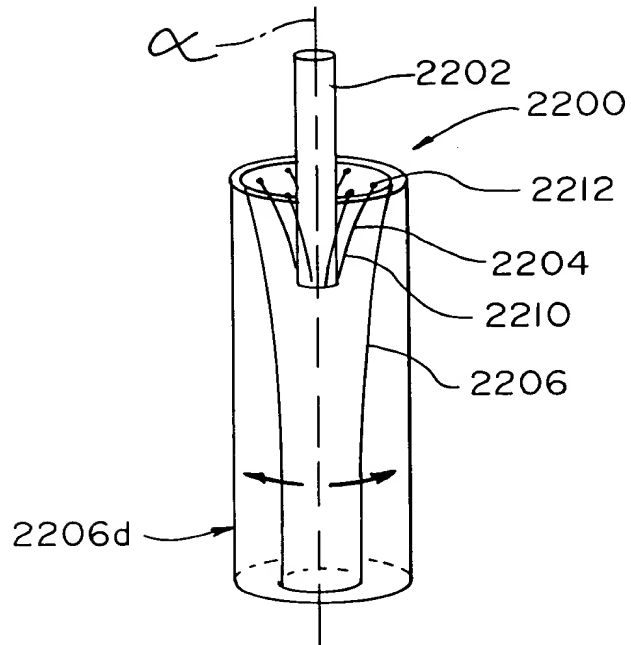
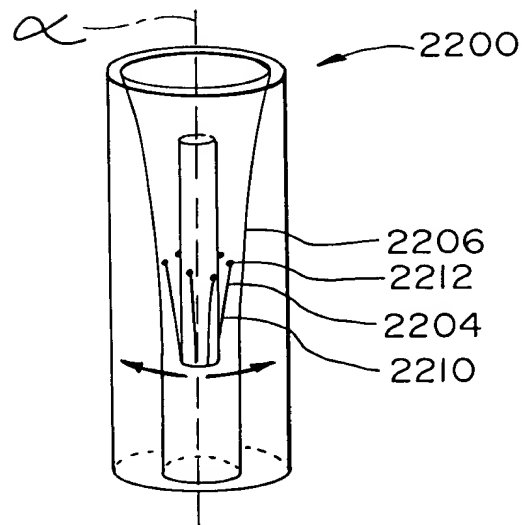


Fig. 22B





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Fig. 23A

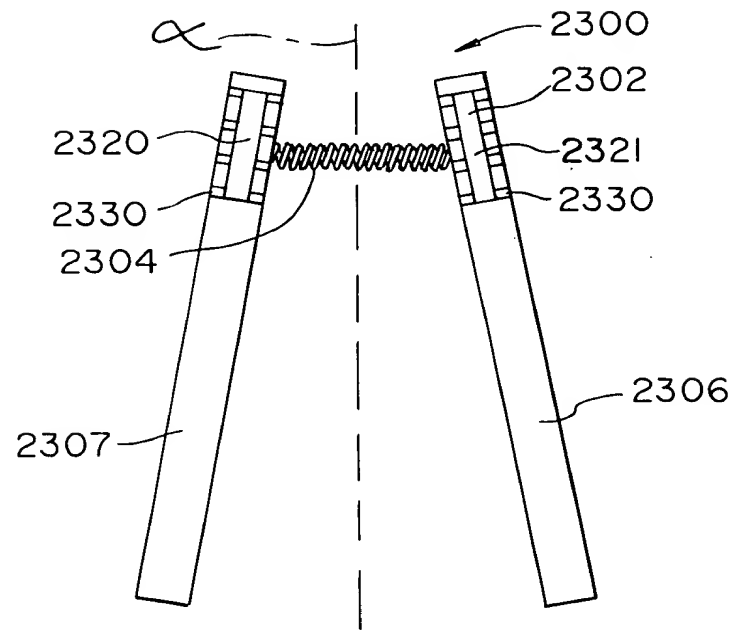
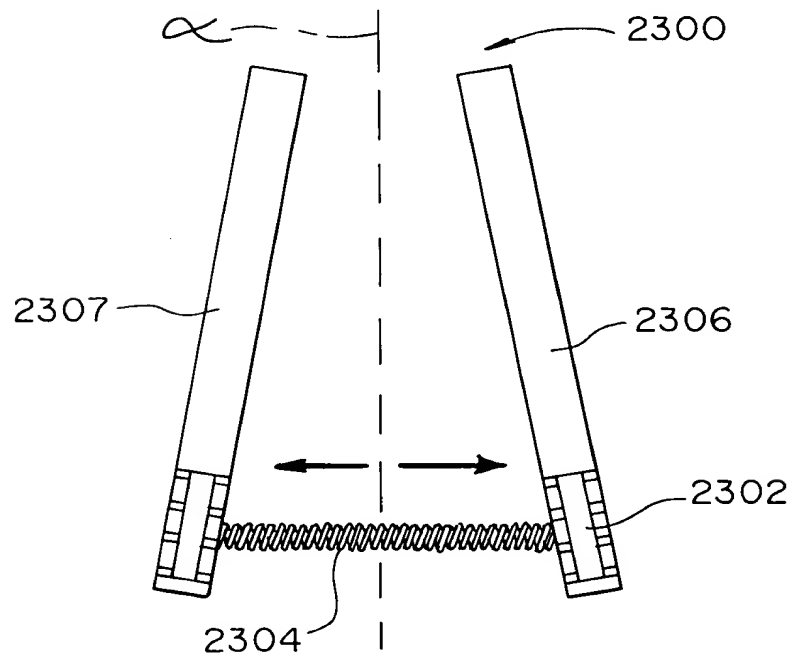


Fig. 23B





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Fig. 24A

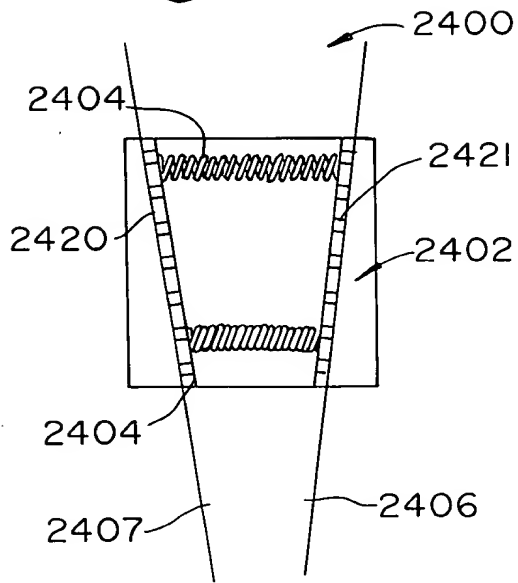


Fig. 24B

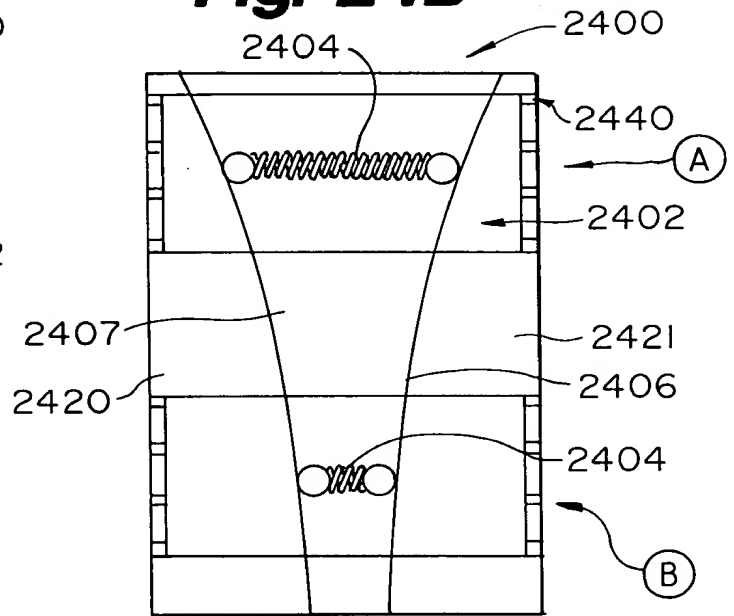
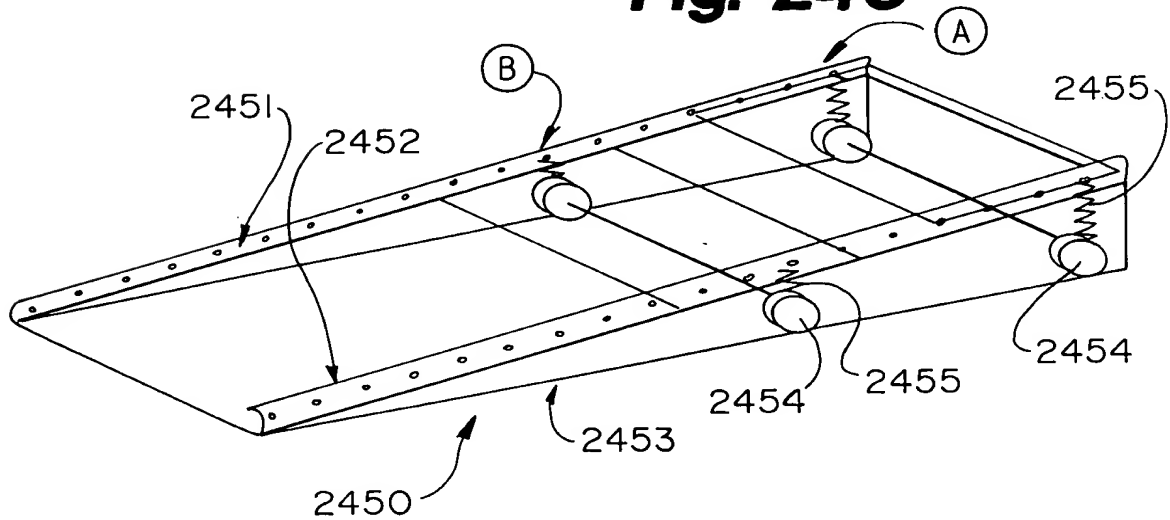


Fig. 24C





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Fig. 25

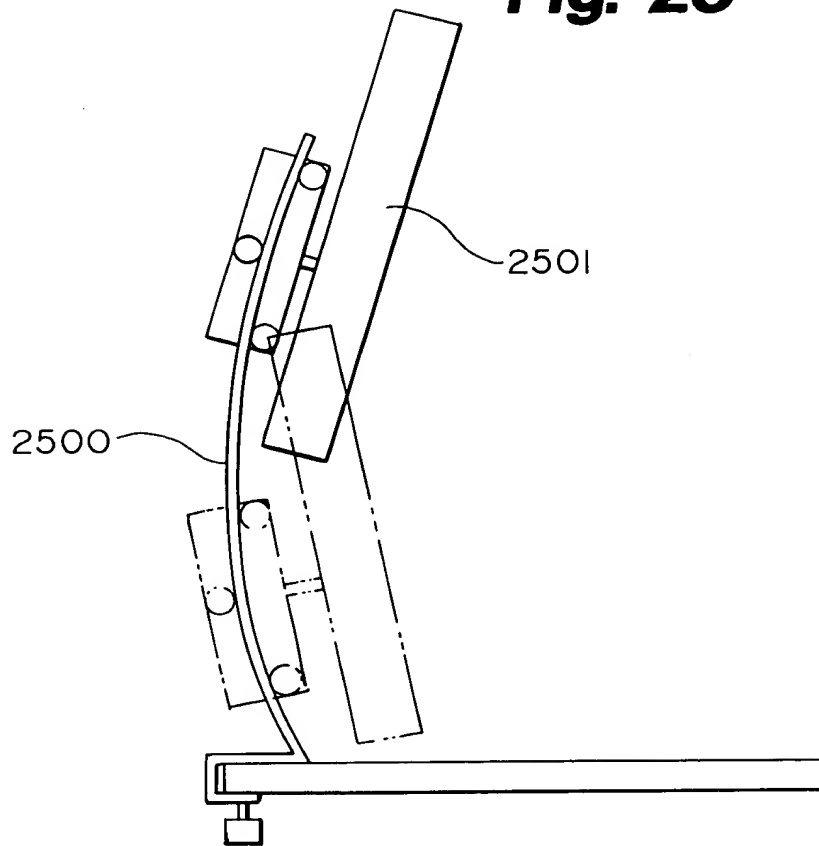
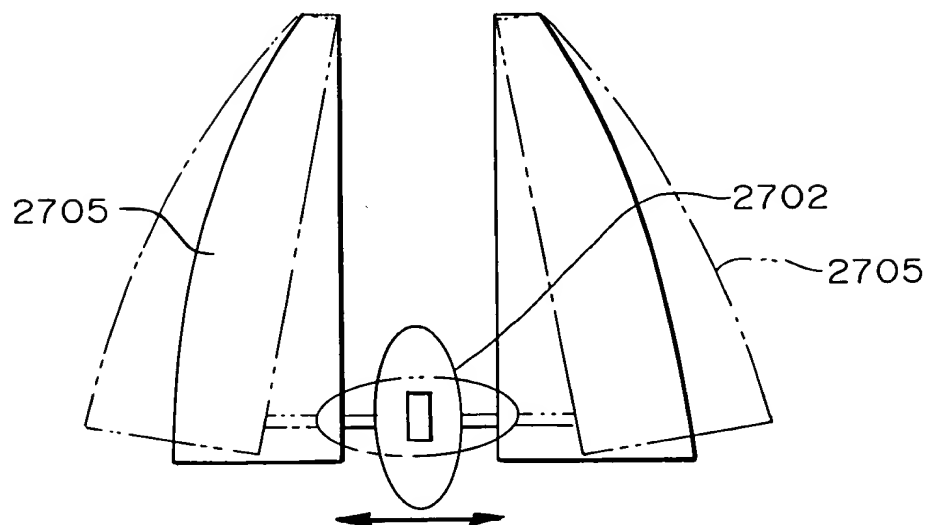


Fig. 26





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Fig. 27

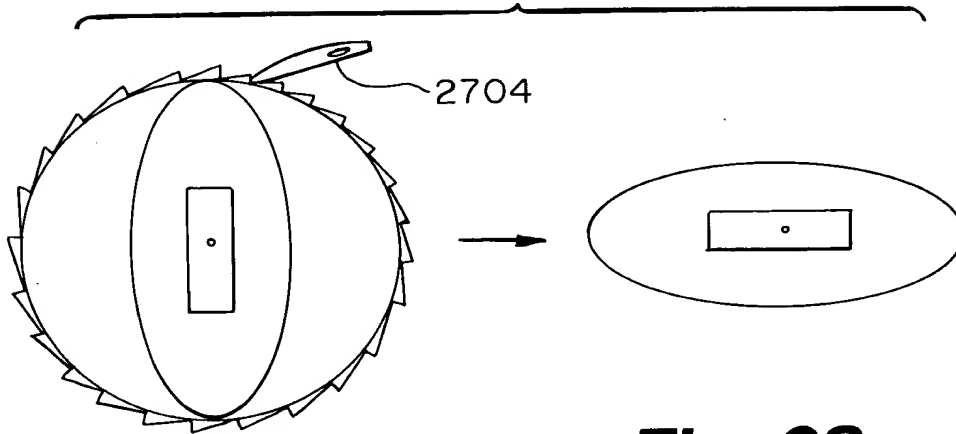


Fig. 28

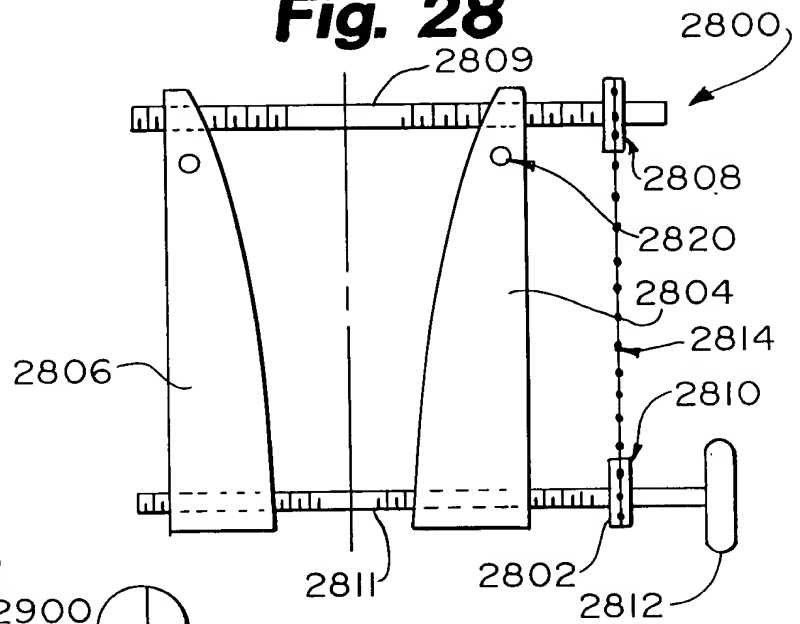
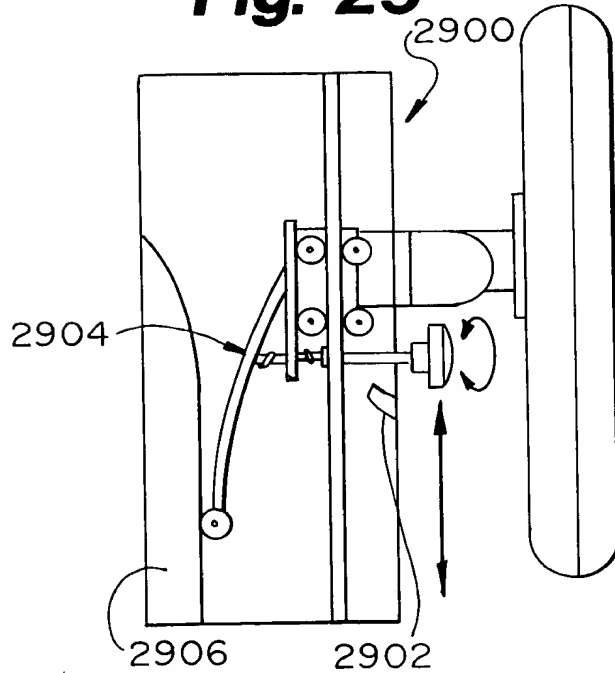
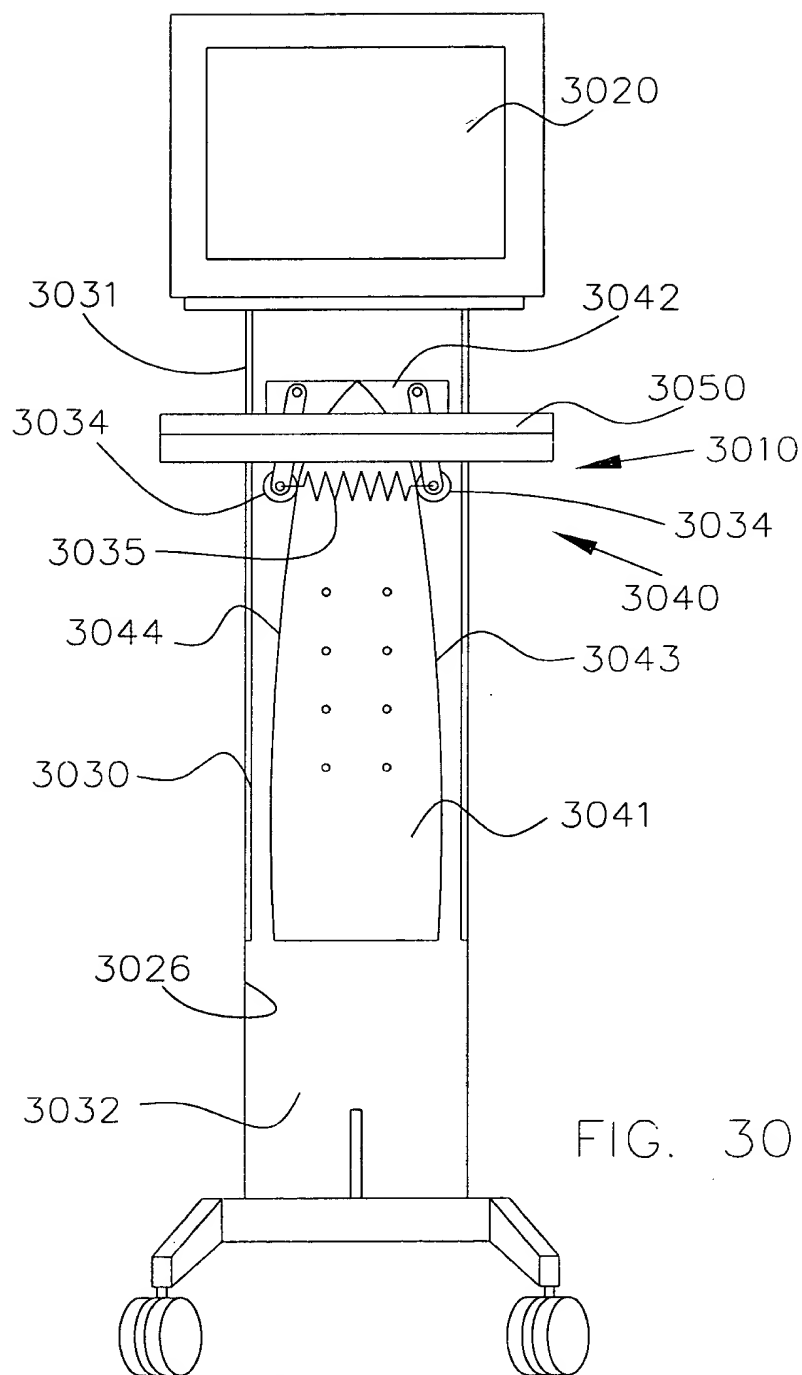


Fig. 29





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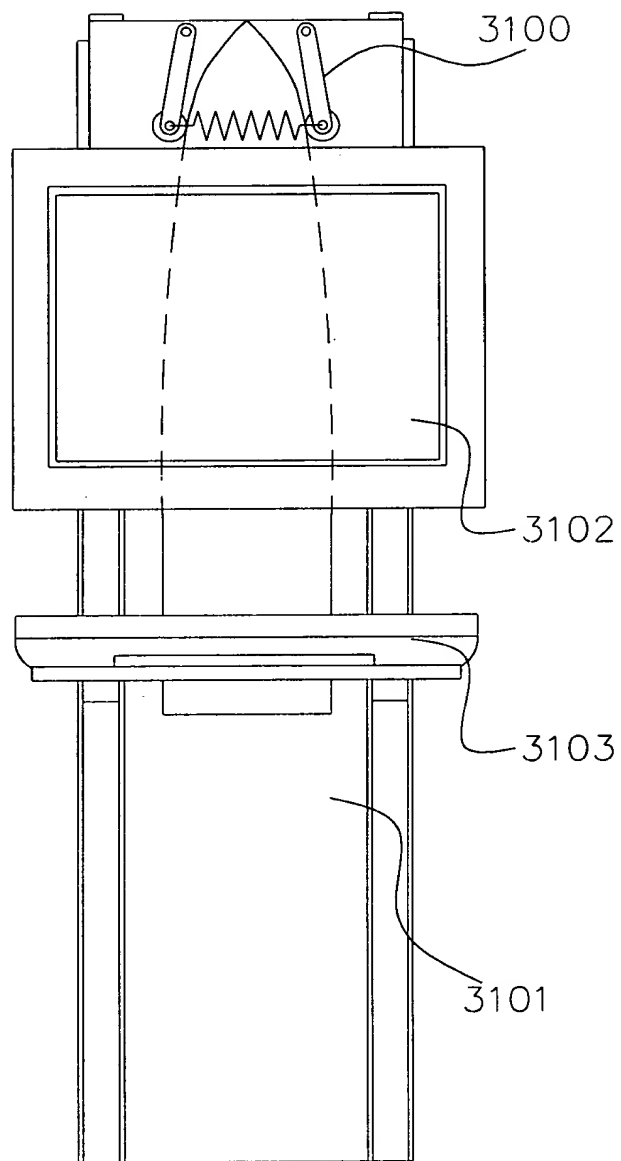


FIG. 31A



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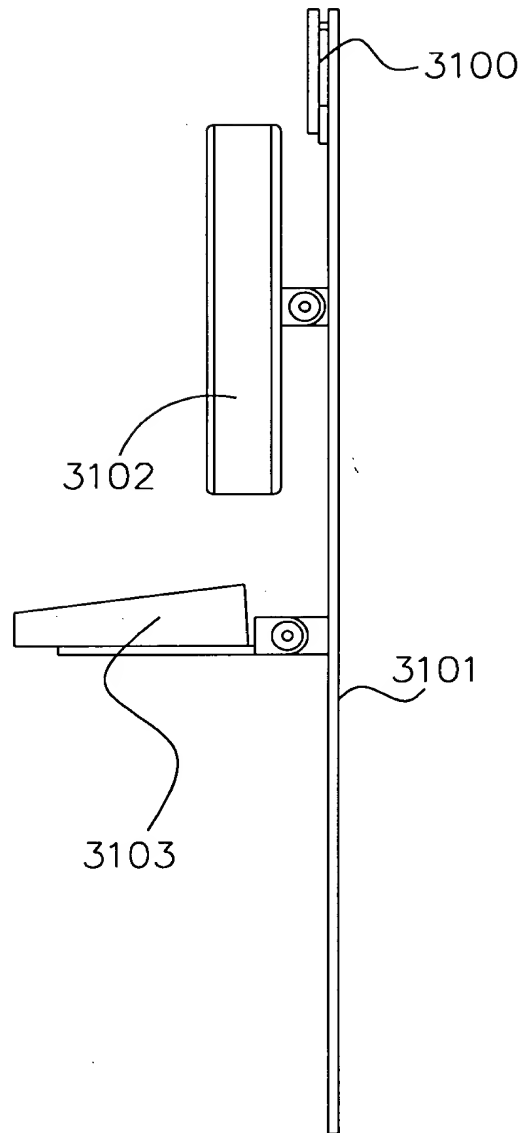


FIG. 31B



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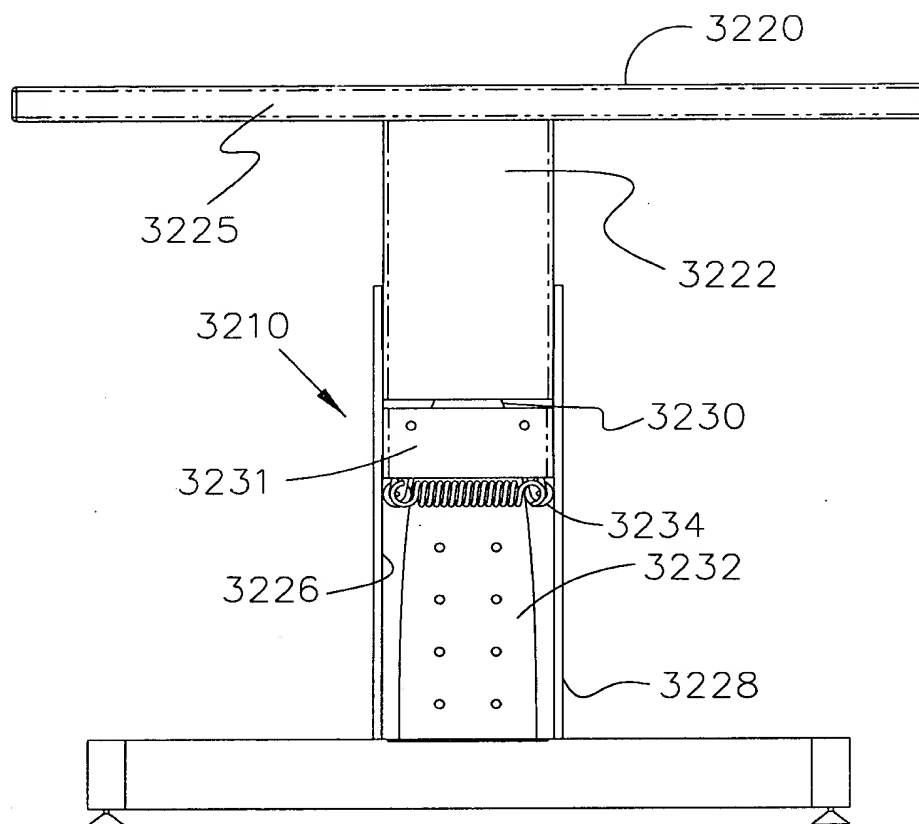


FIG. 32



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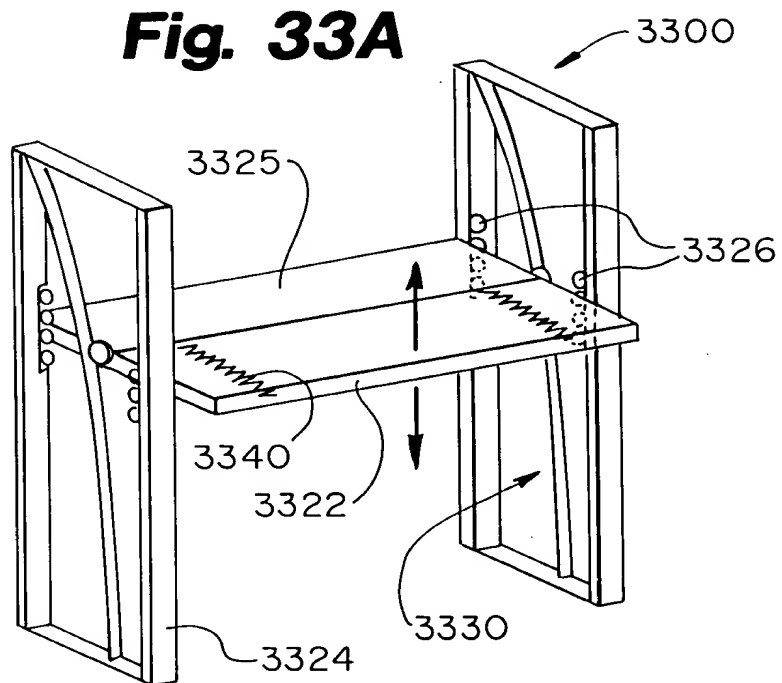
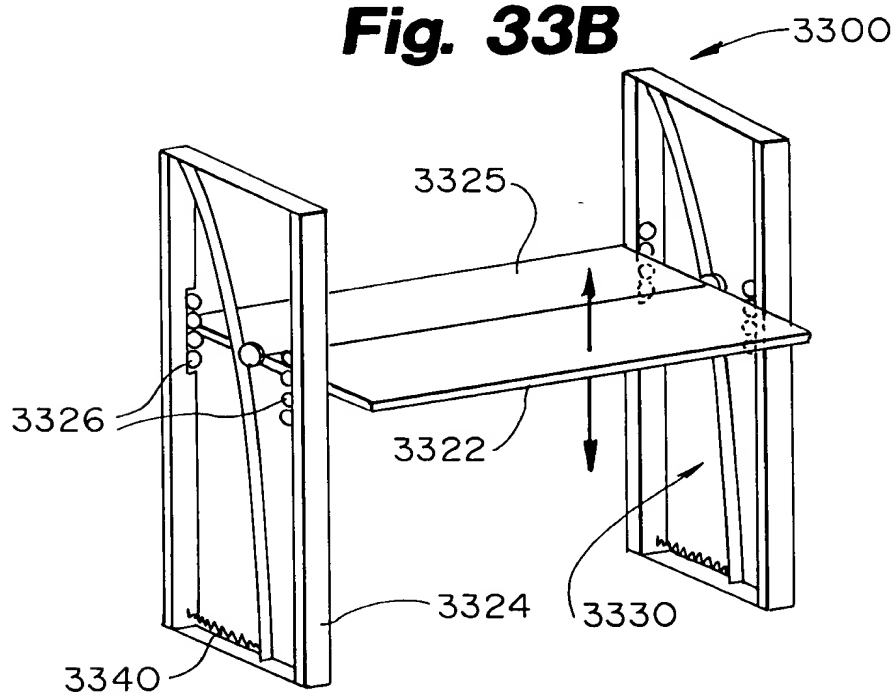


Fig. 33B





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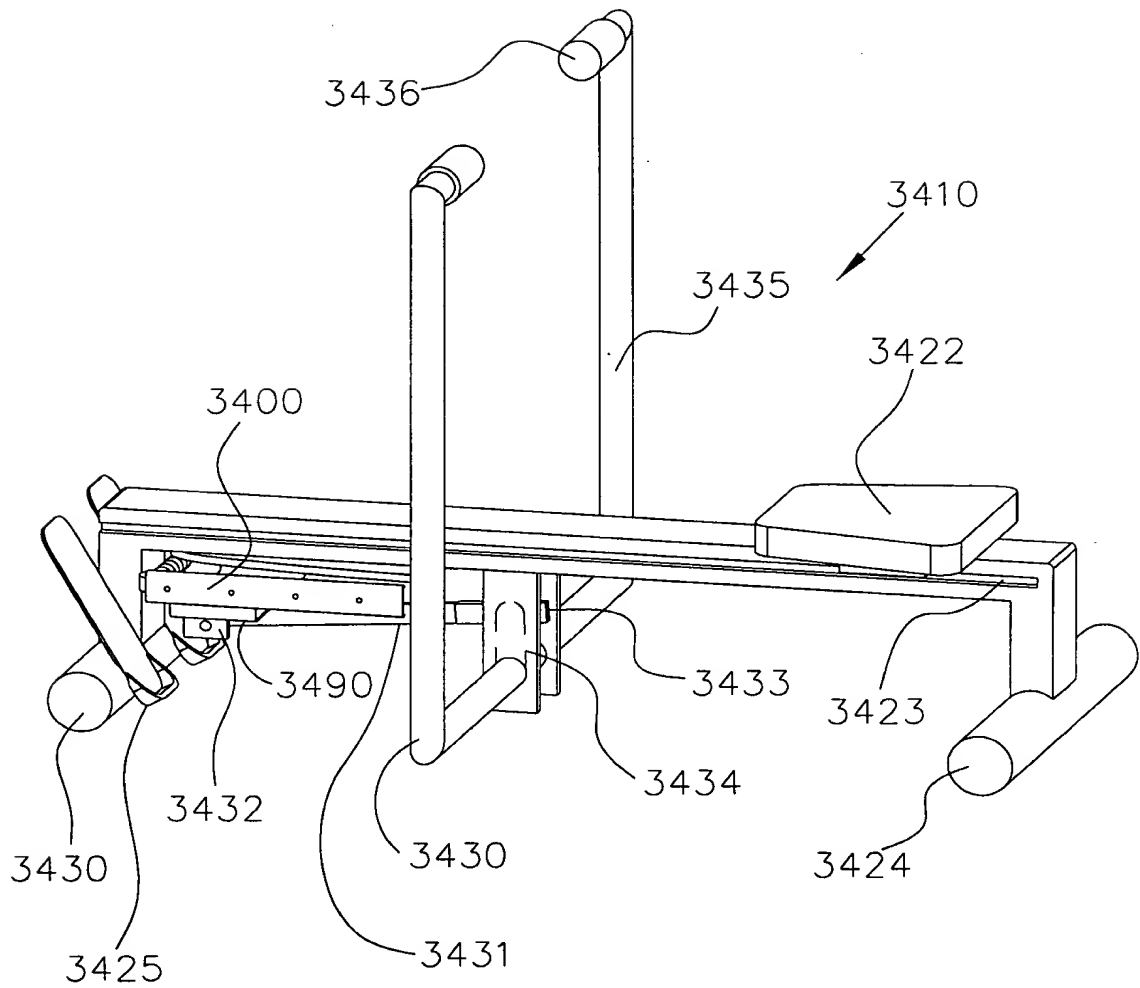


FIG. 34



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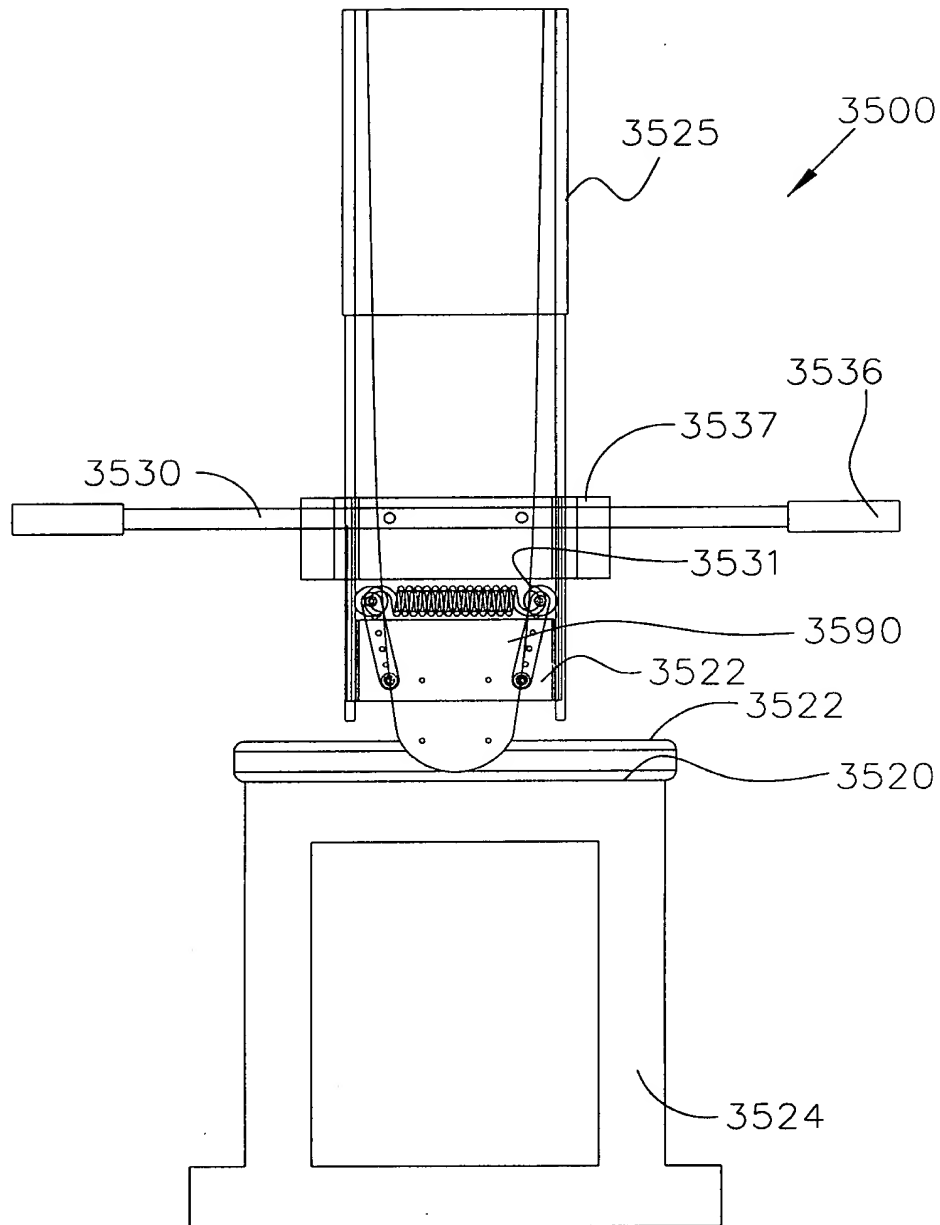
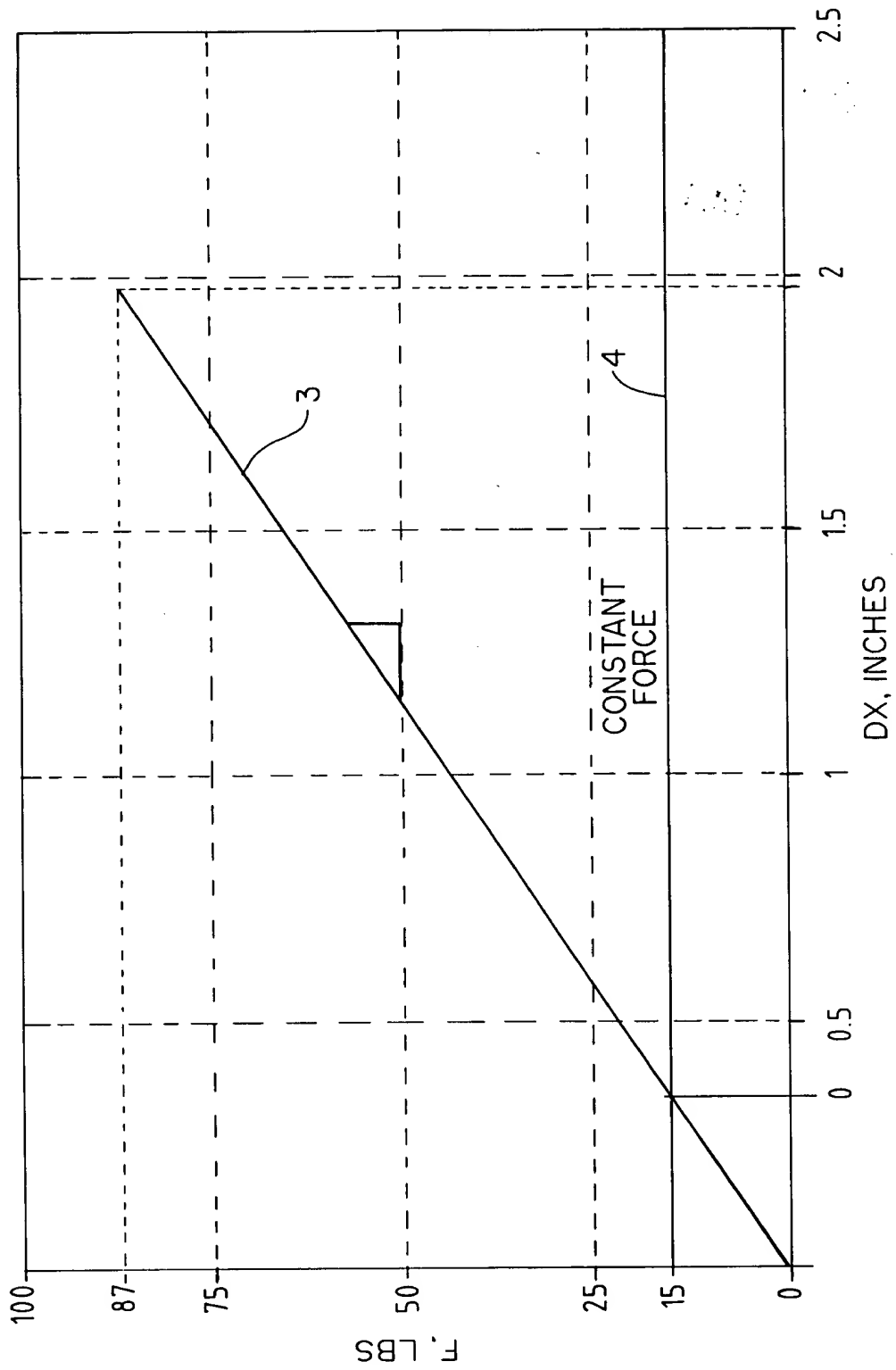


FIG. 35



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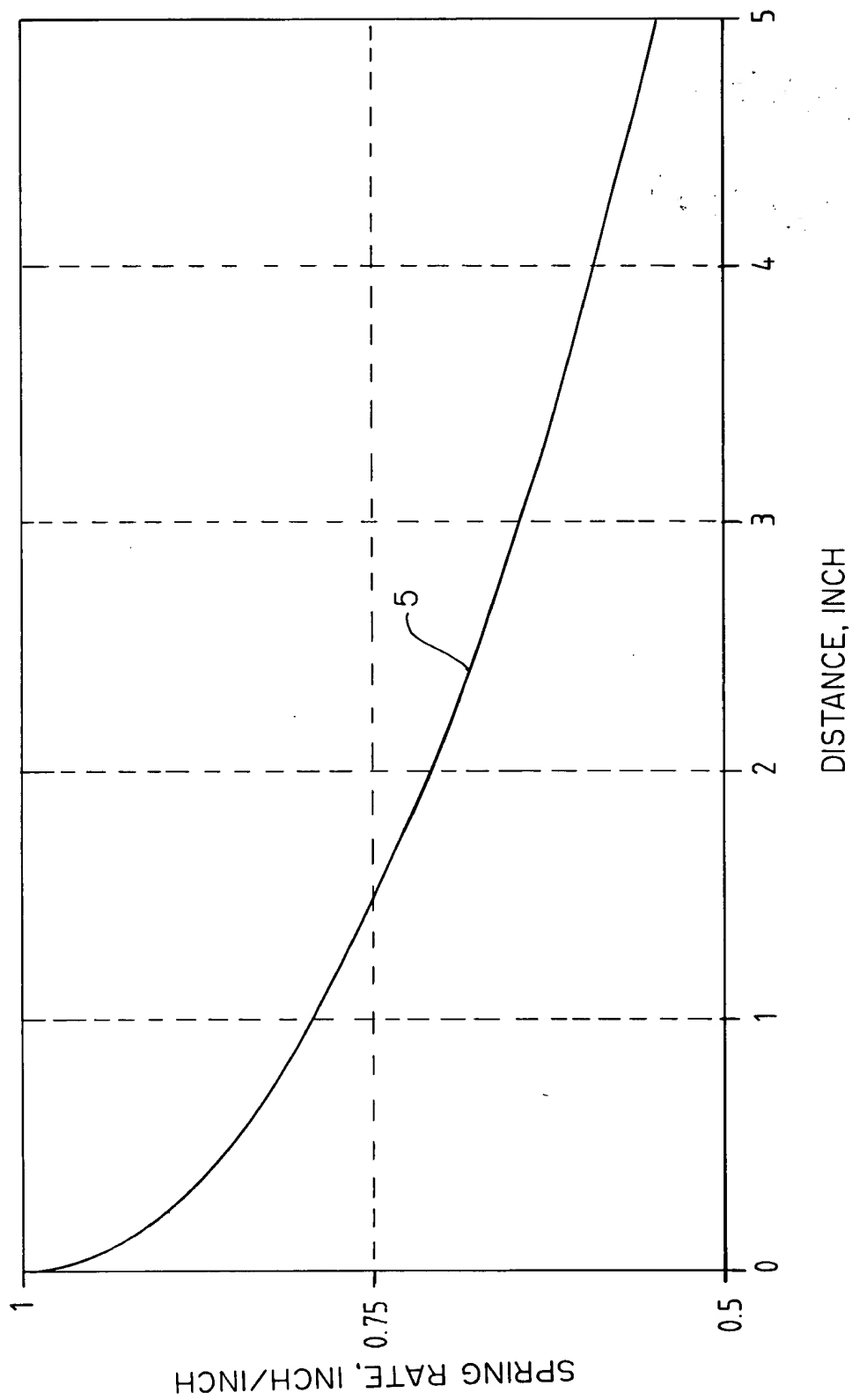
Fig. 36A





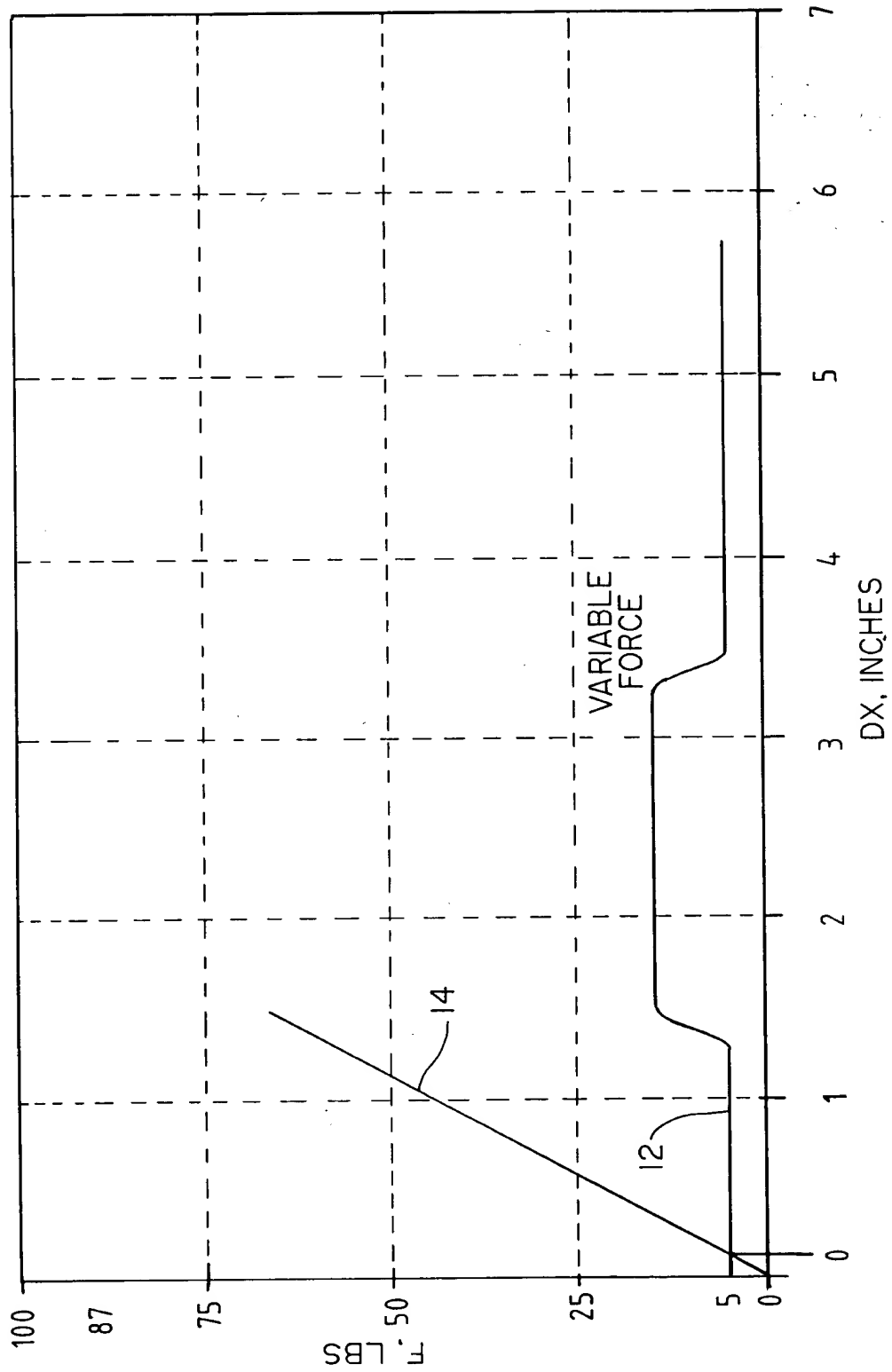
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Fig. 36B



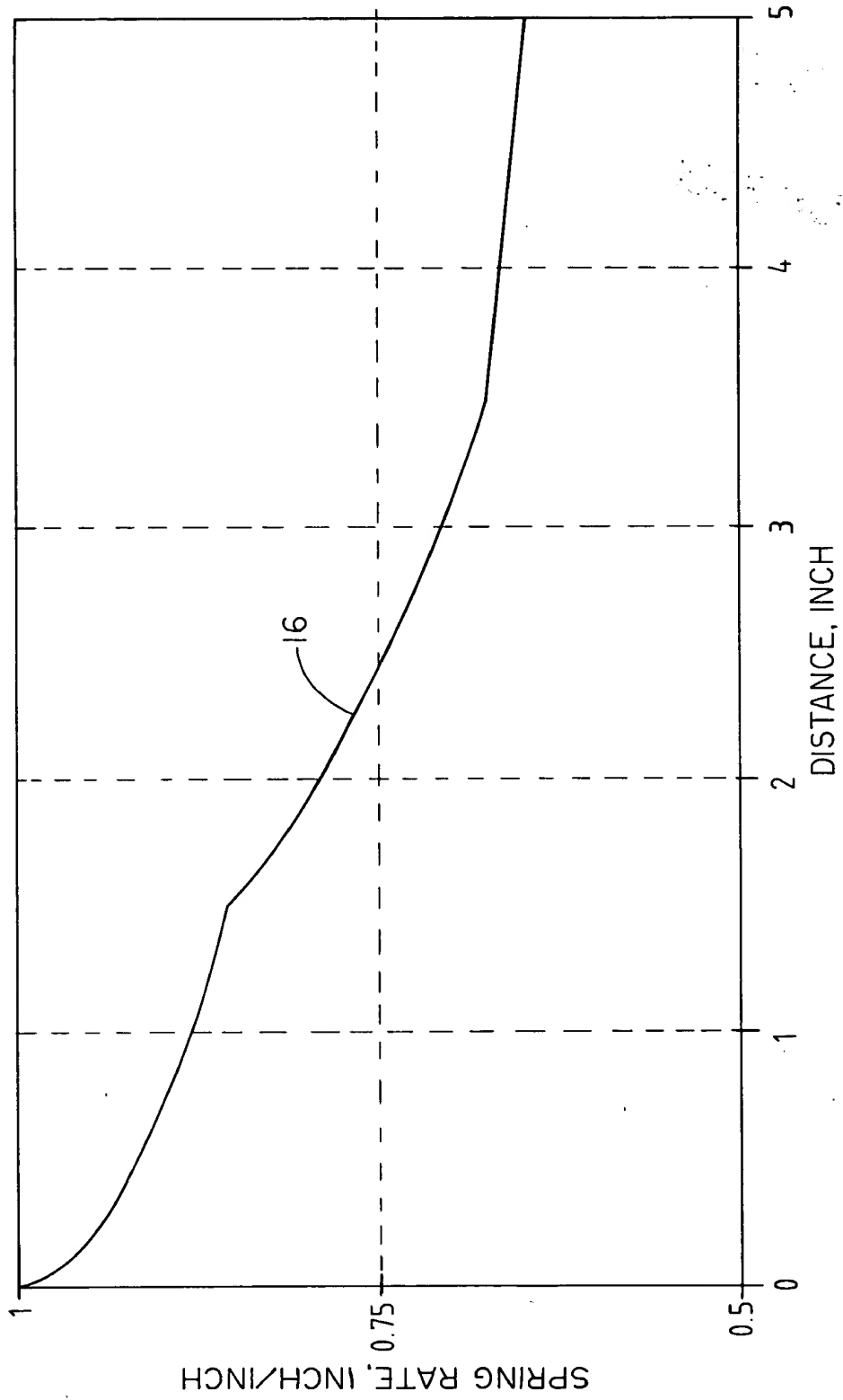


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Fig. 37A



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Fig. 37B



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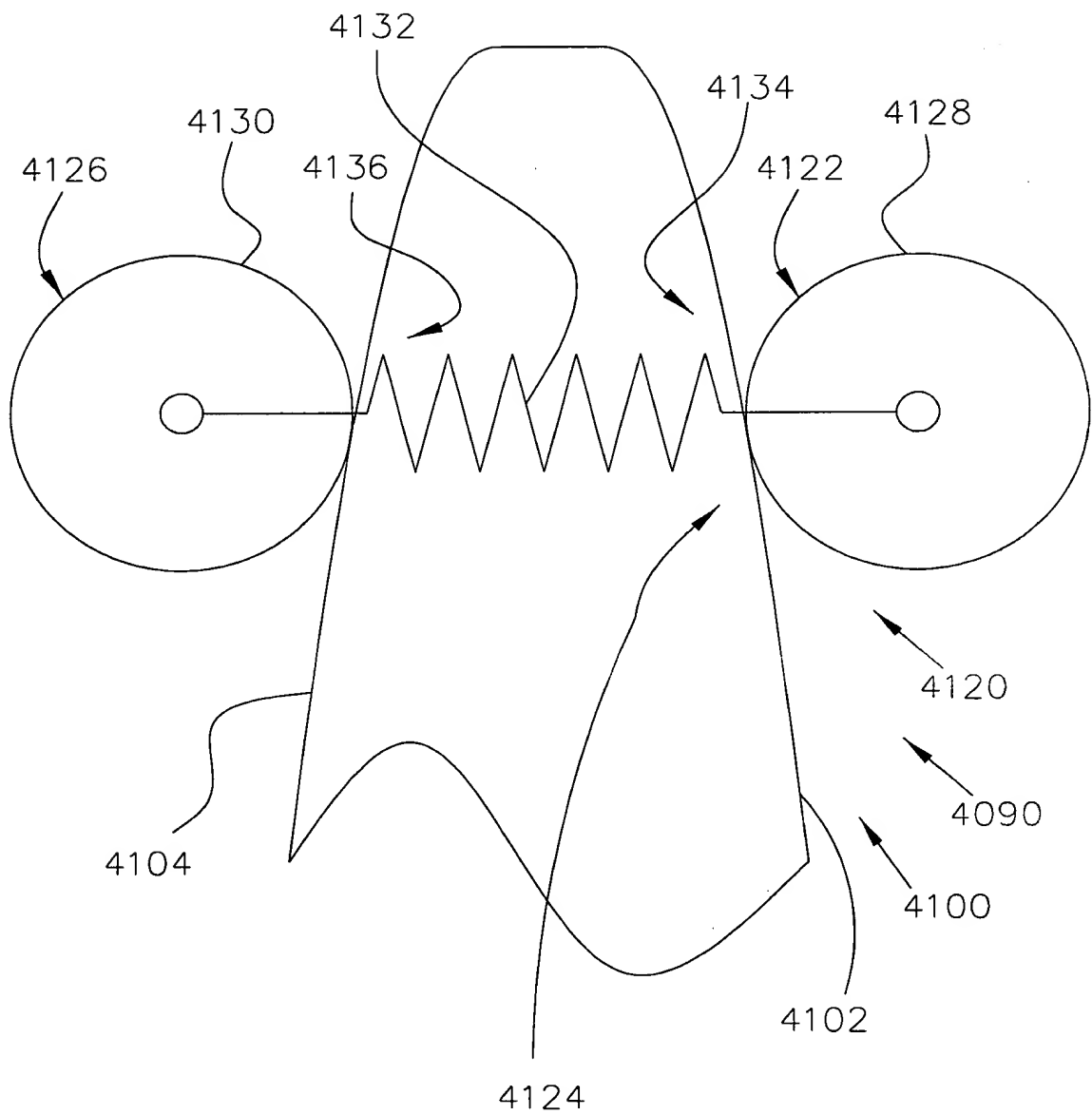


FIG. 38



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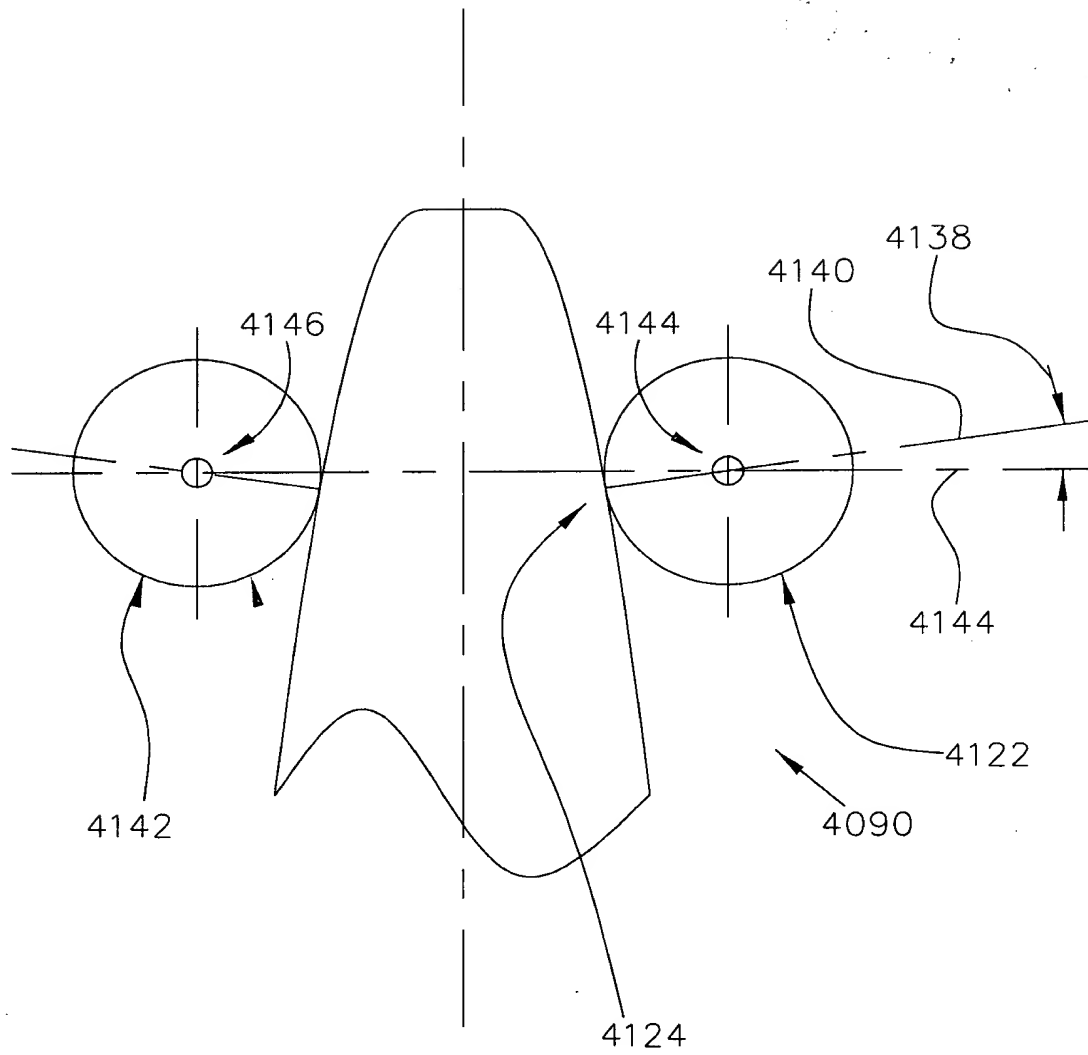


FIG. 39



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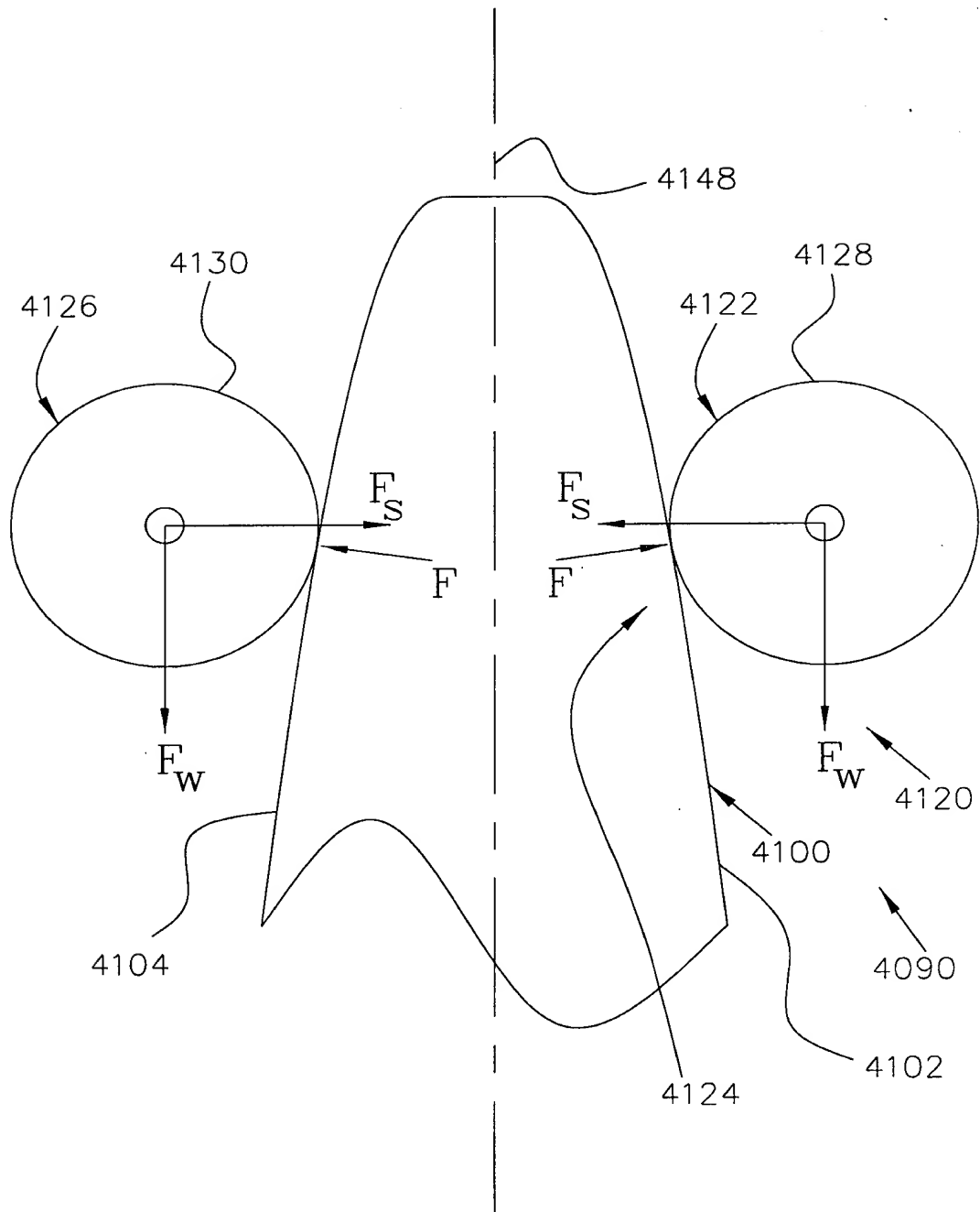


FIG. 40



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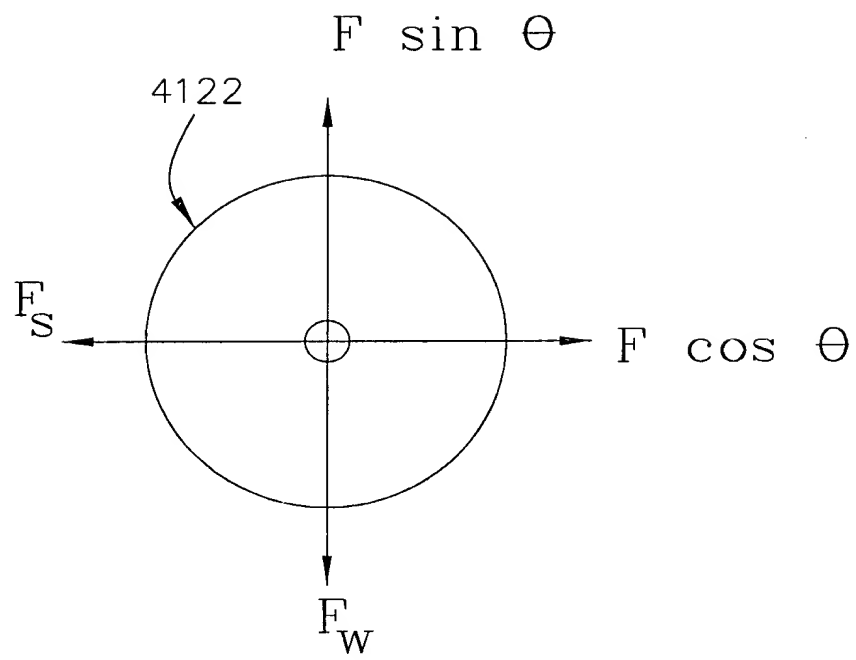


FIG. 41



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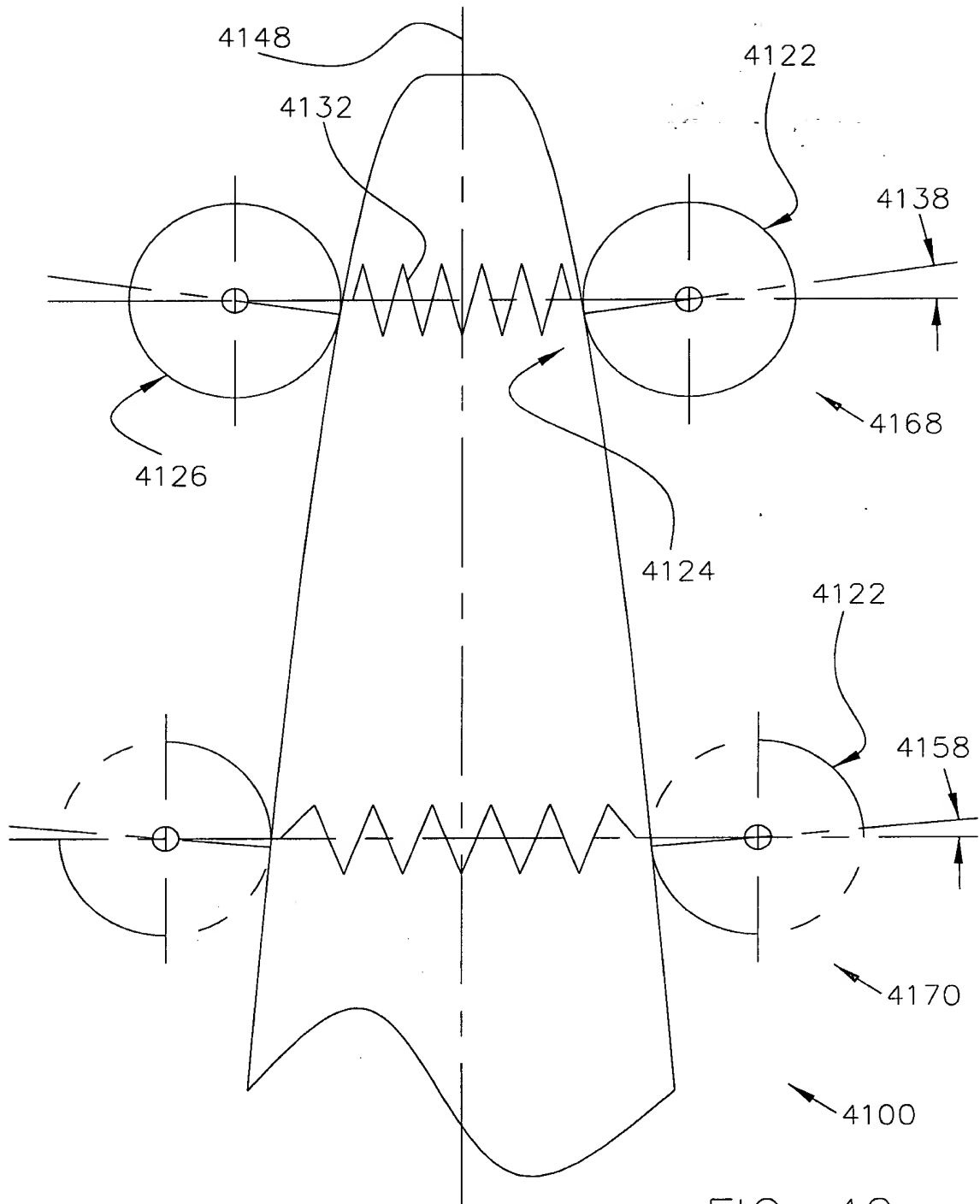


FIG. 42



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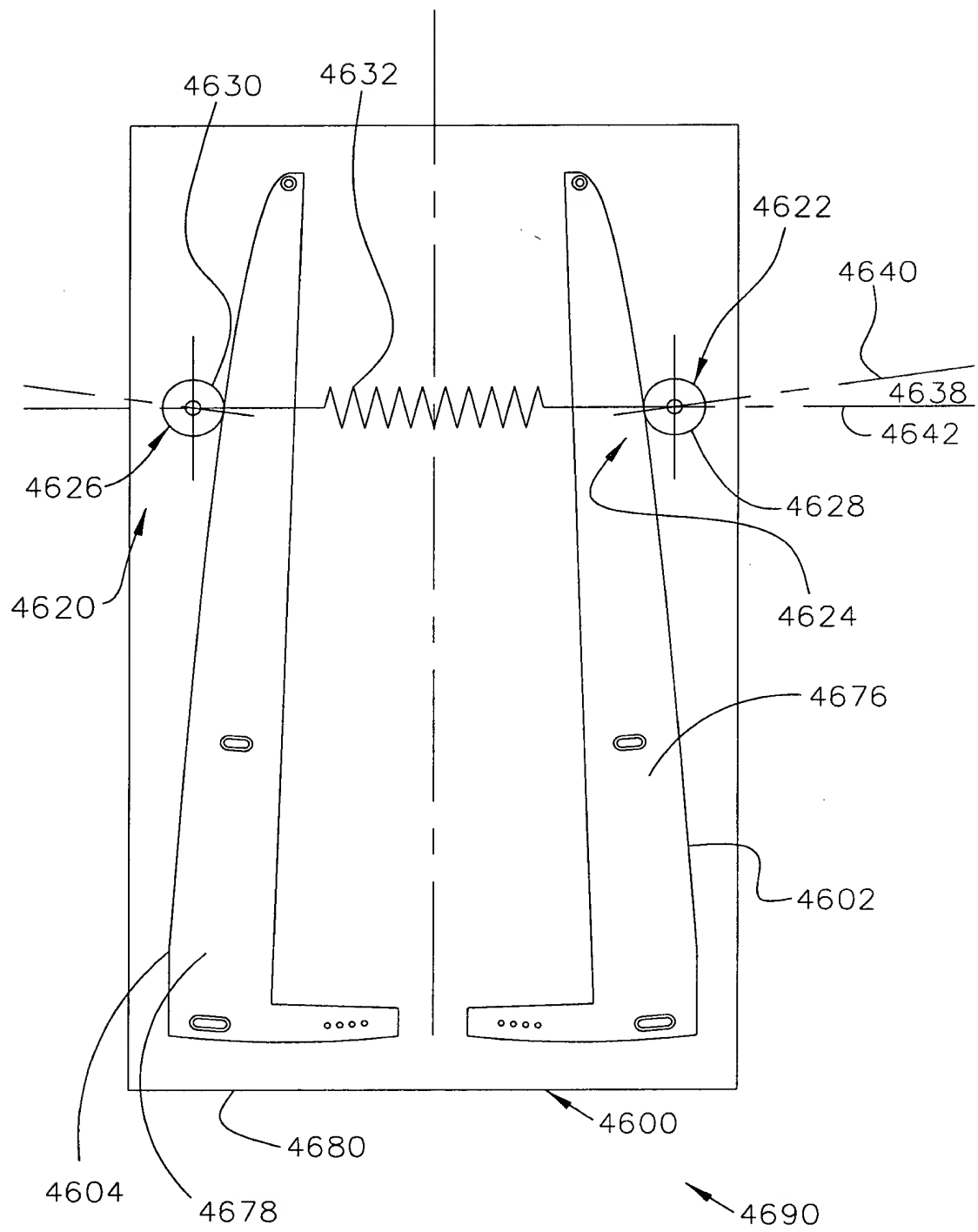


FIG. 43



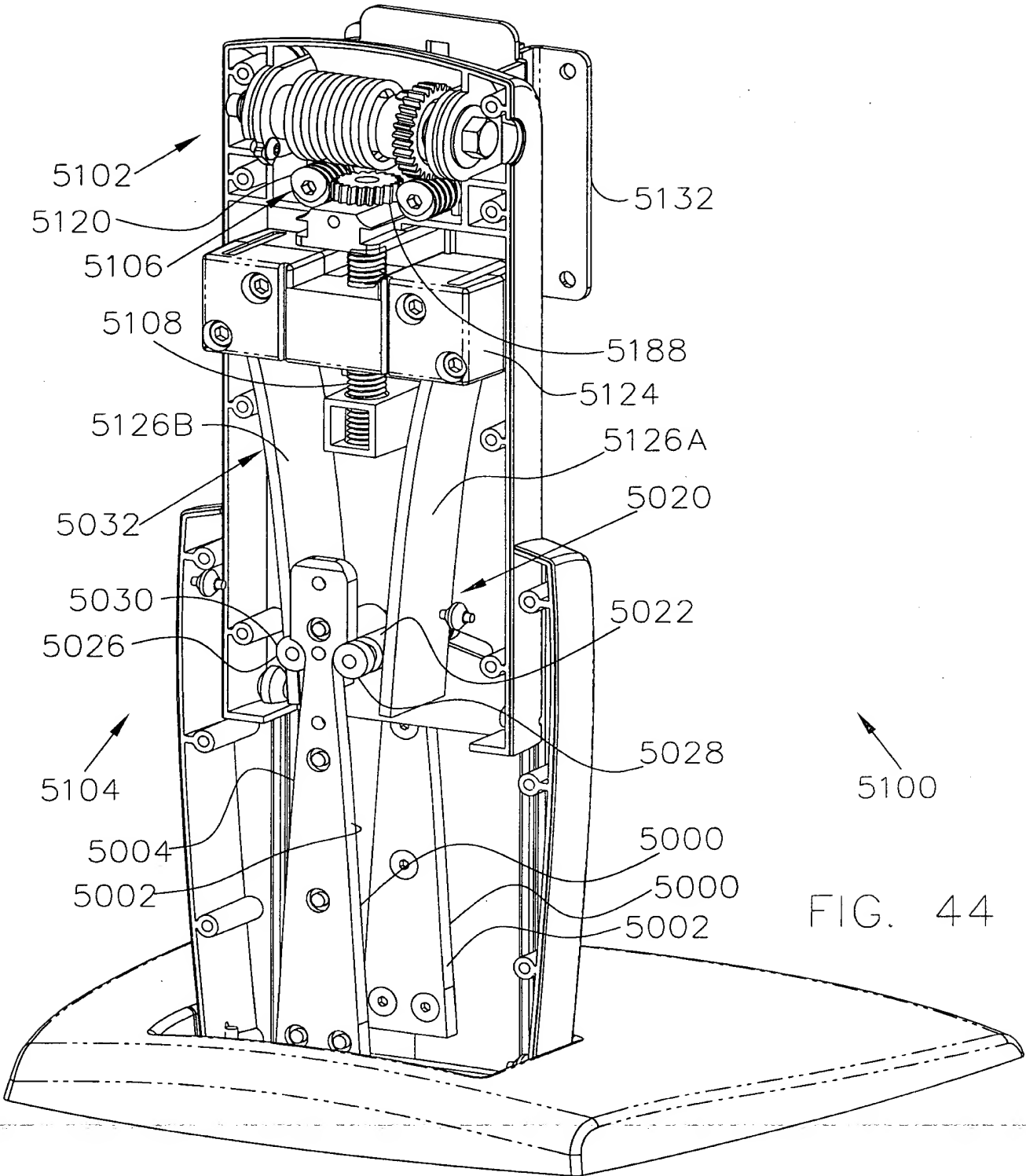
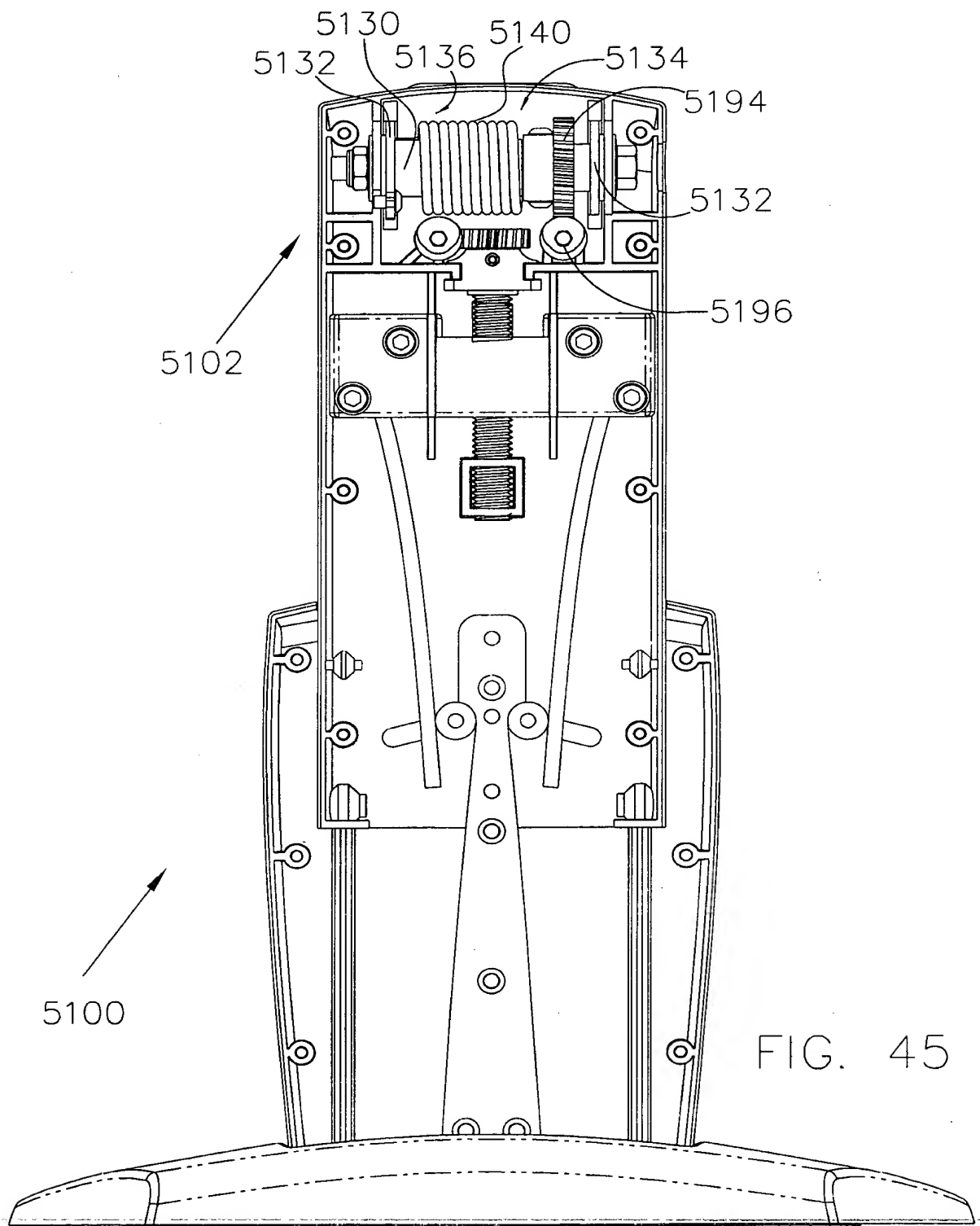


FIG. 44



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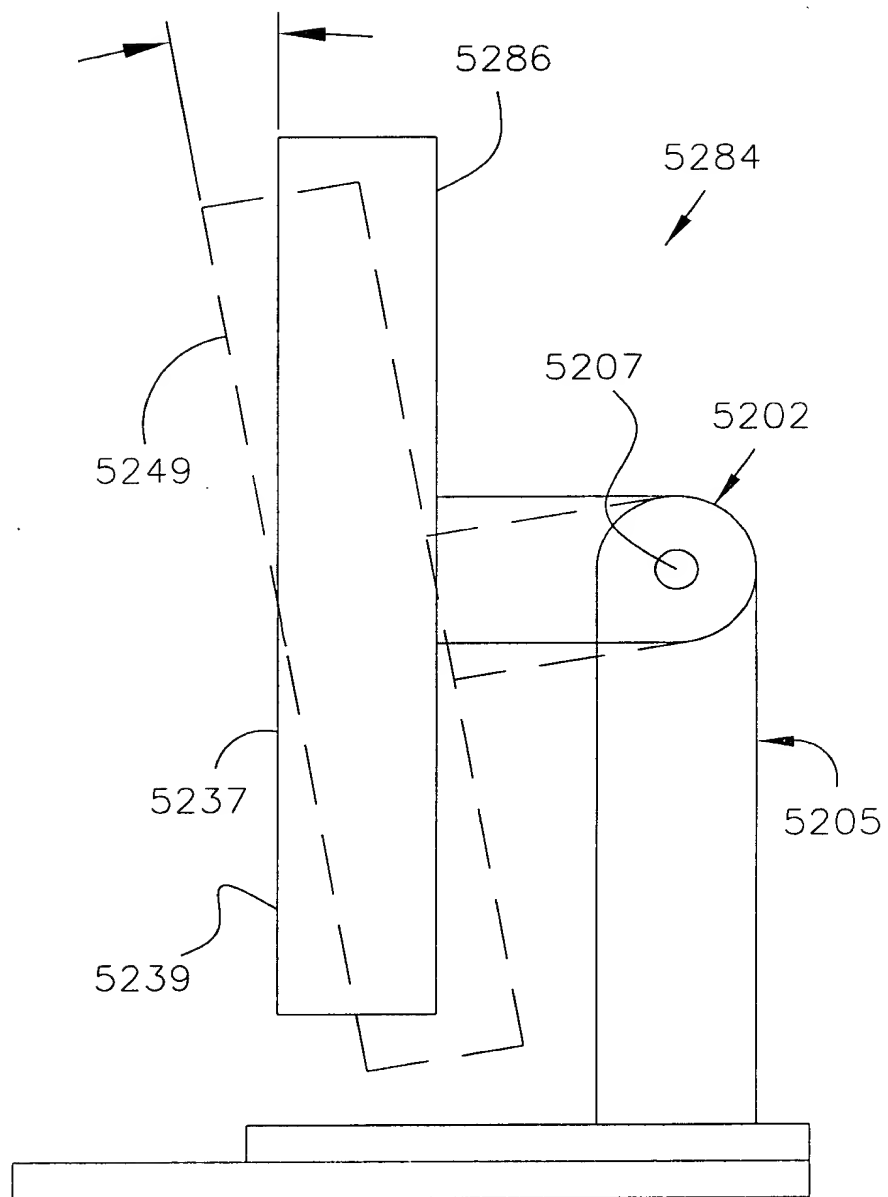


FIG. 46



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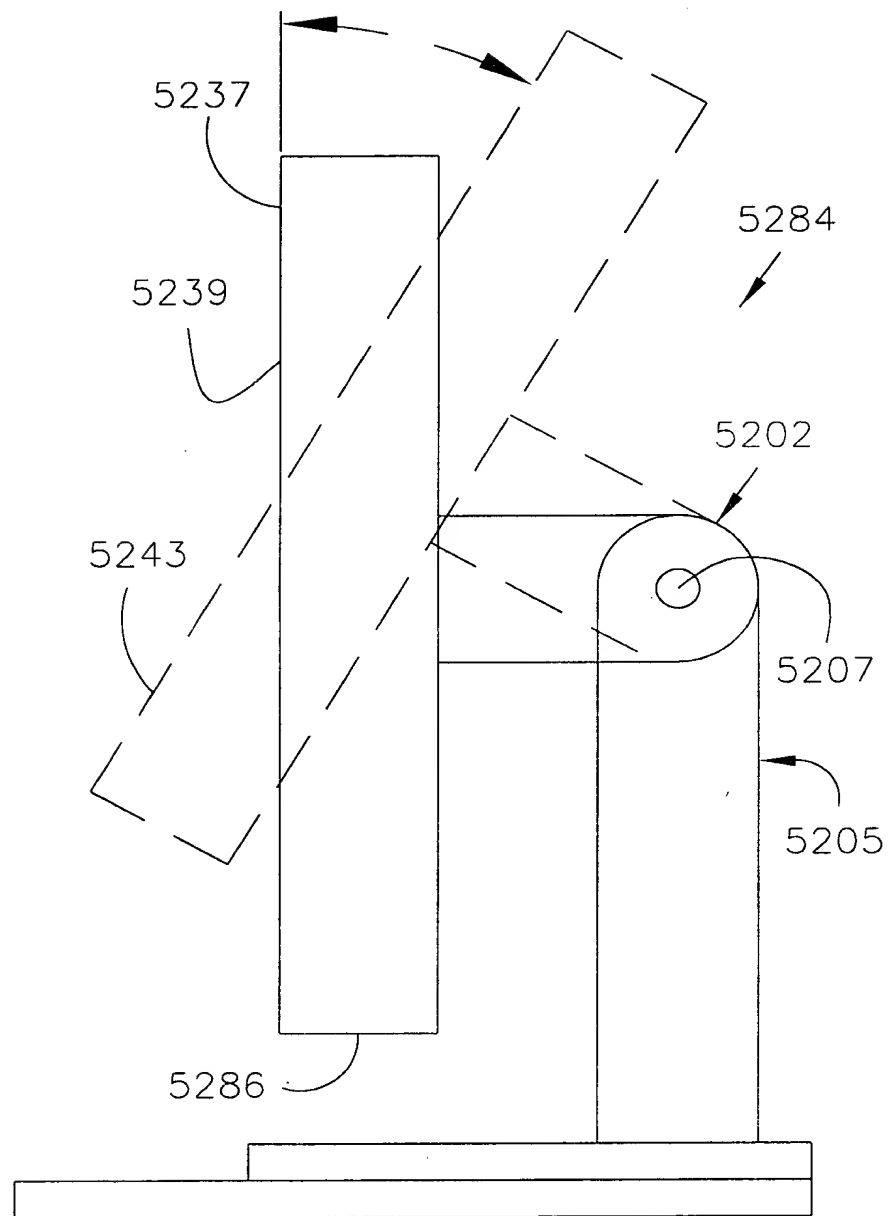
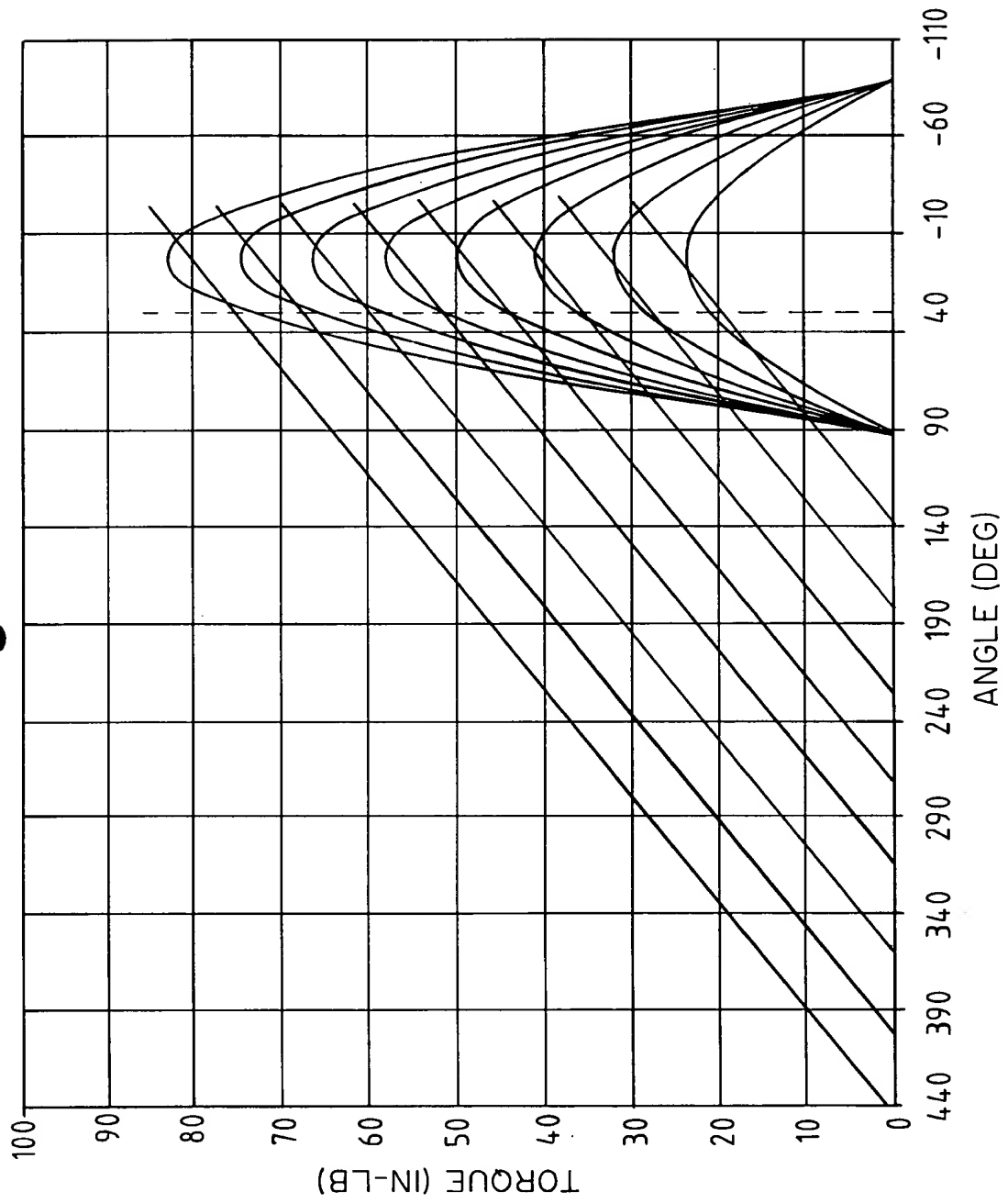


FIG. 47



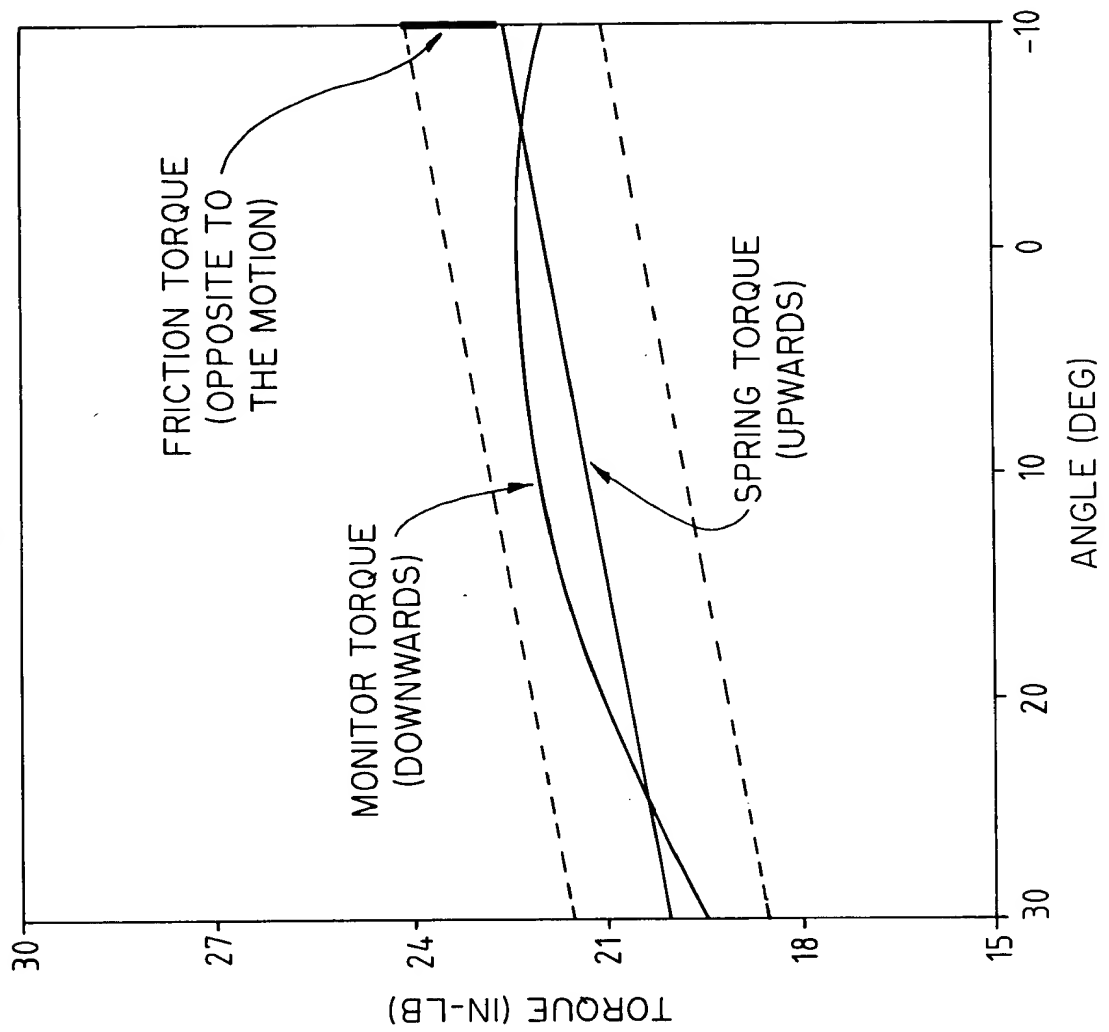
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Fig. 48





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Fig. 49



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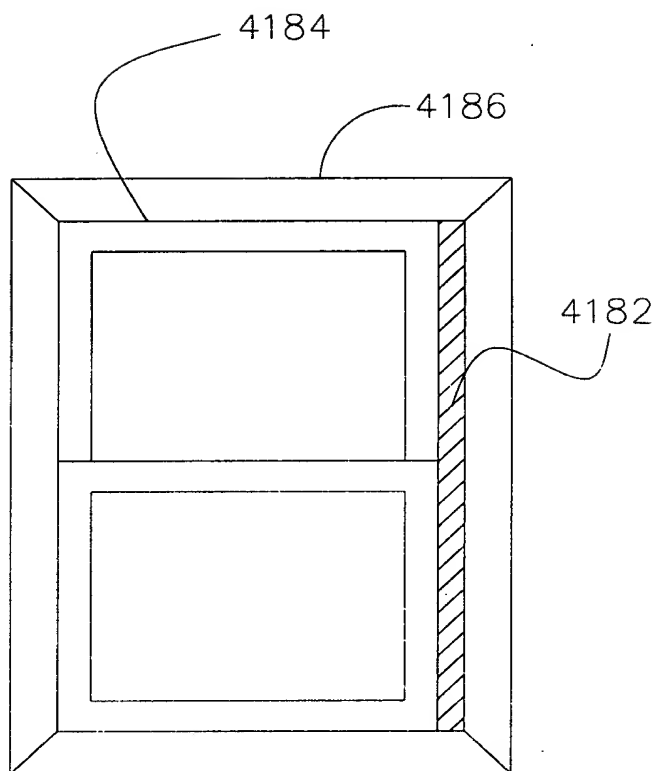


FIG. 50A



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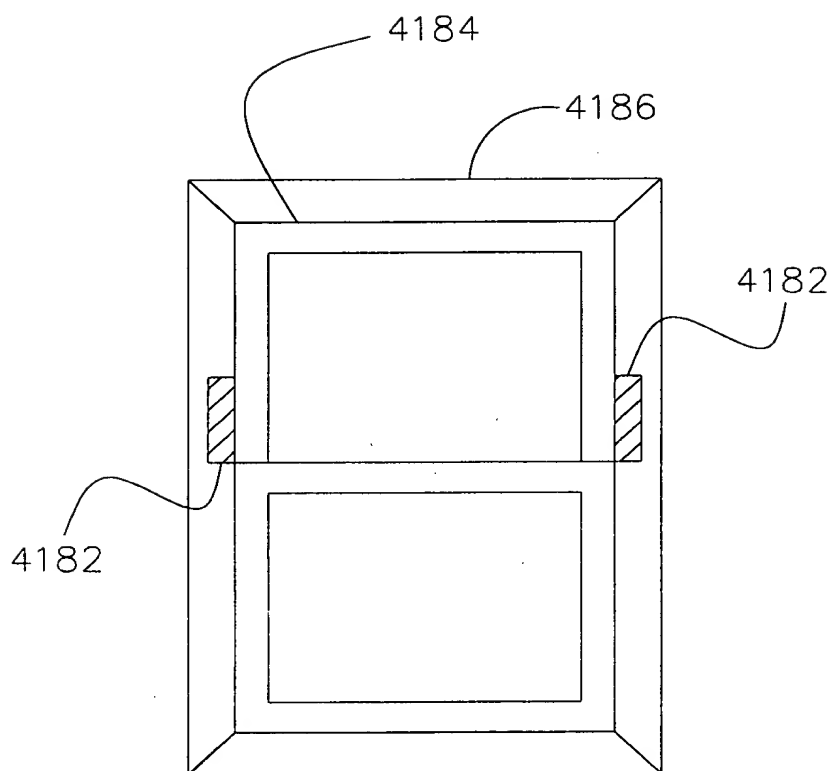


FIG. 50B

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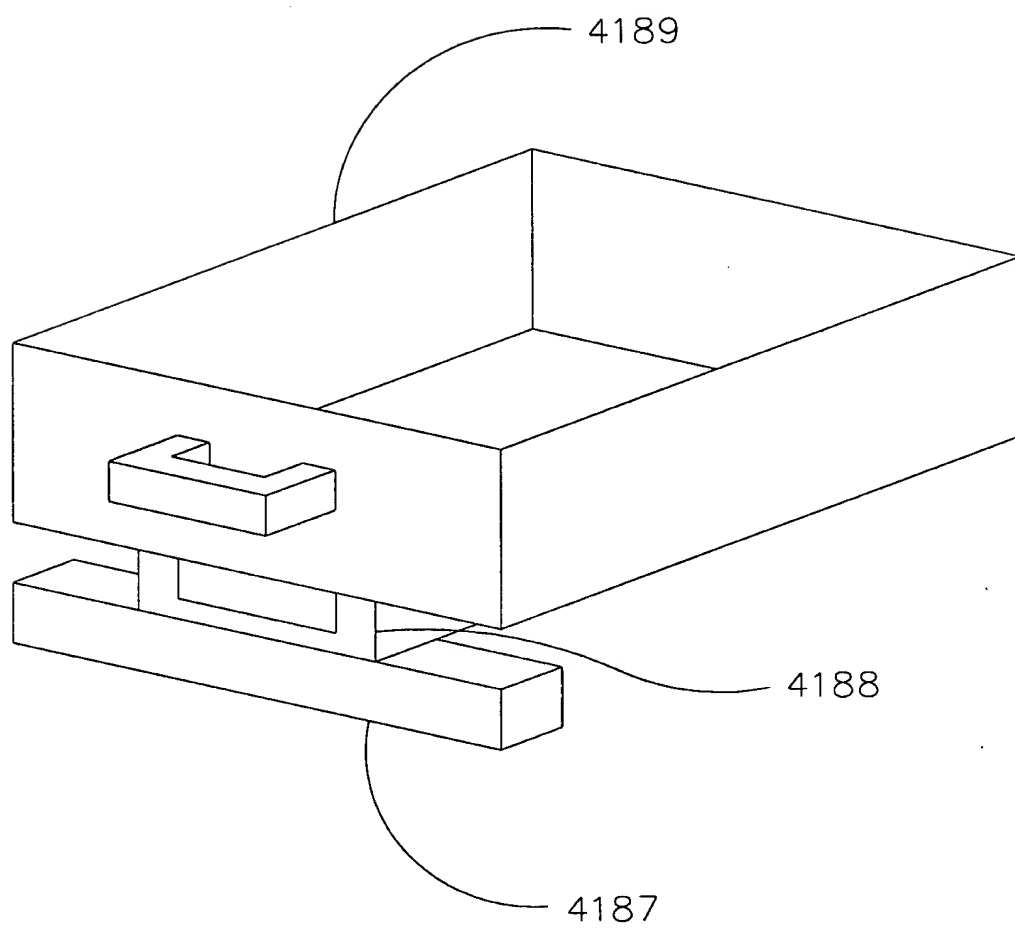


FIG. 51A



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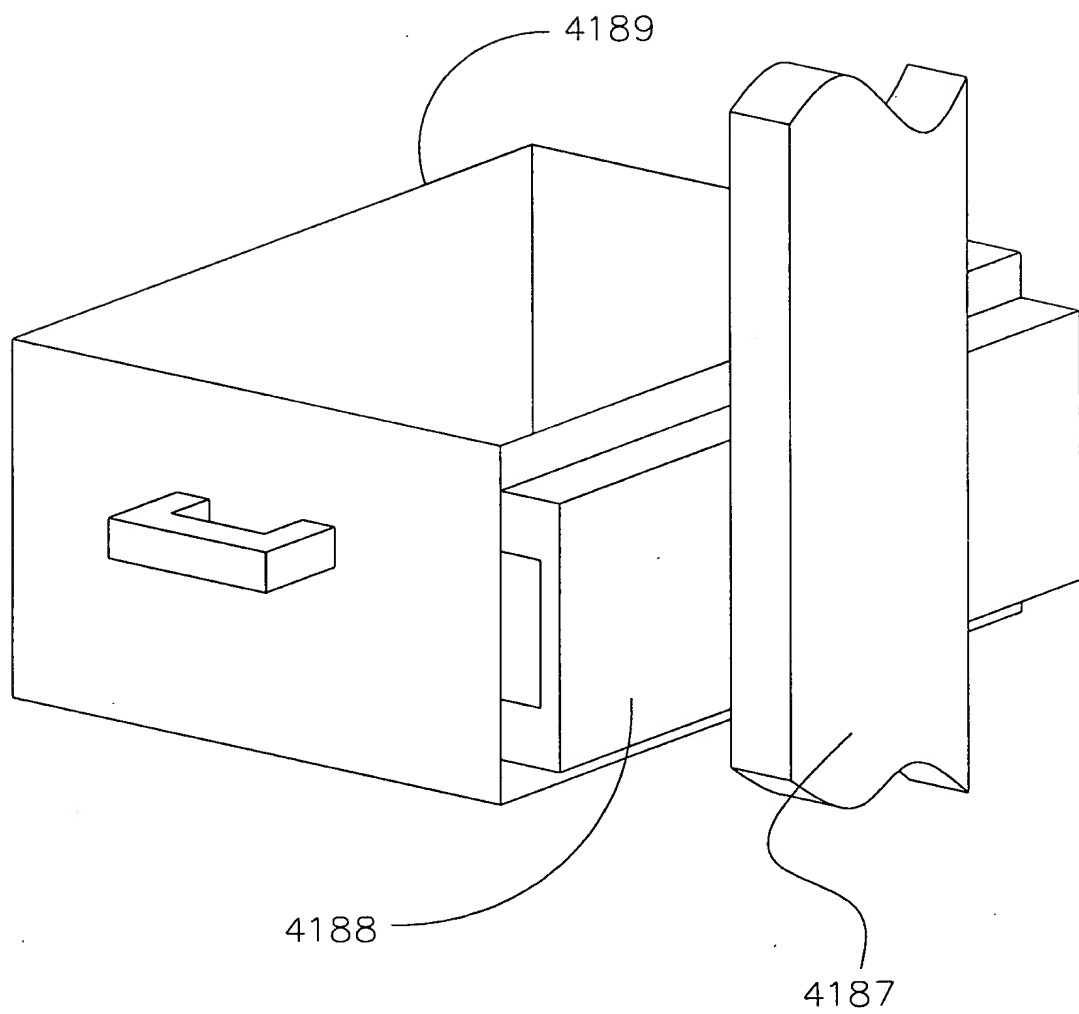


FIG. 51B



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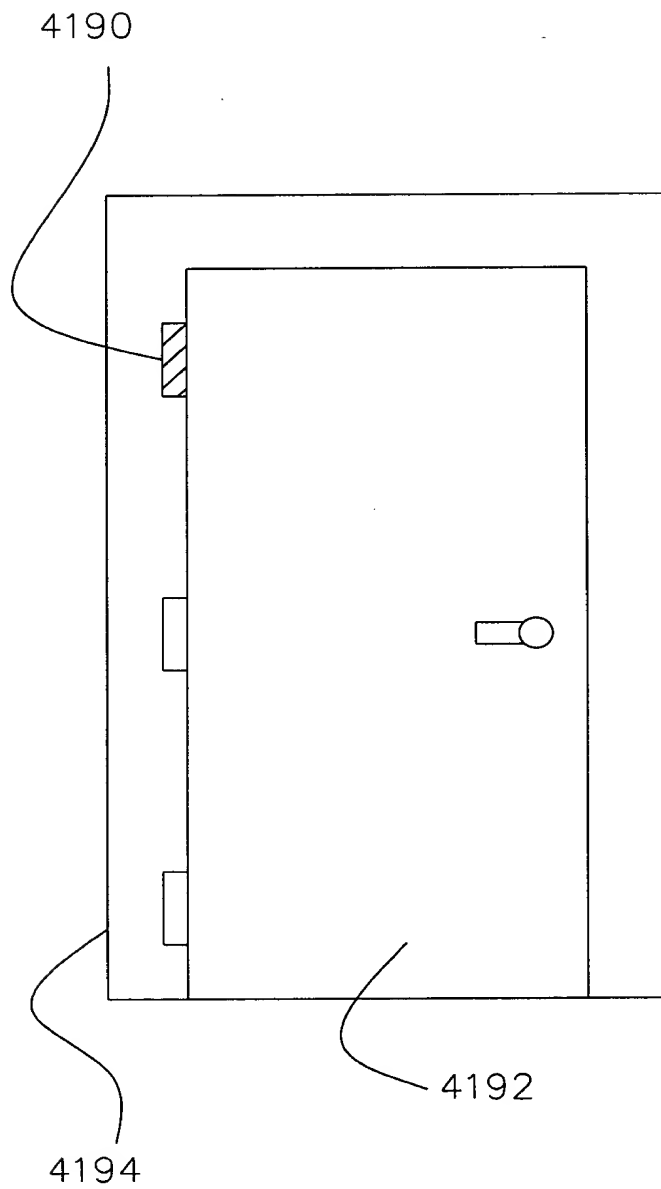


FIG. 52A



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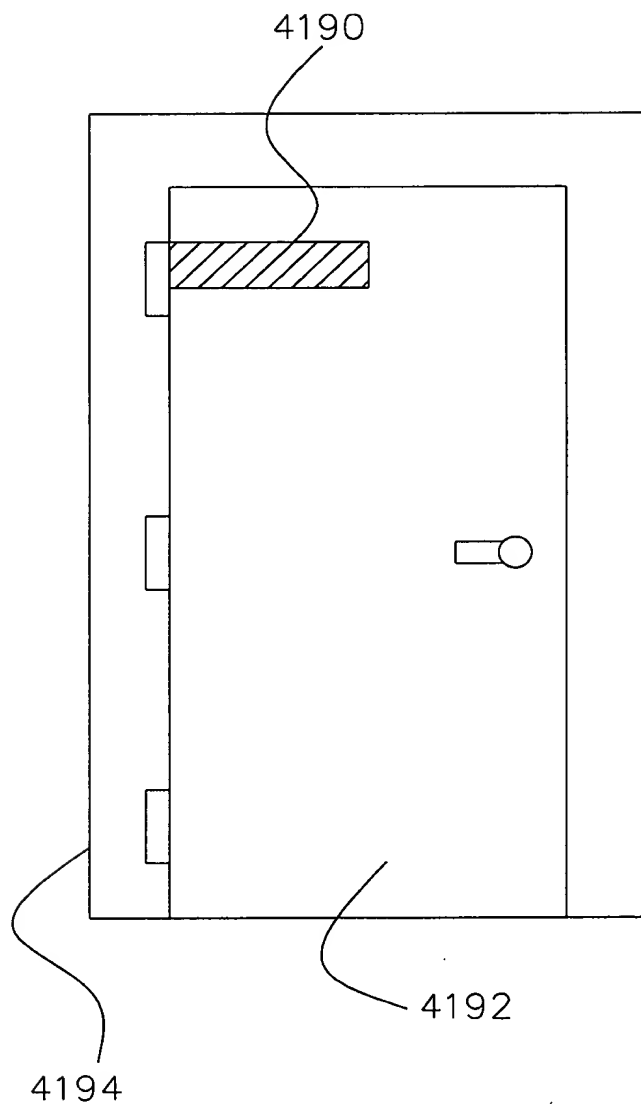


FIG. 52B



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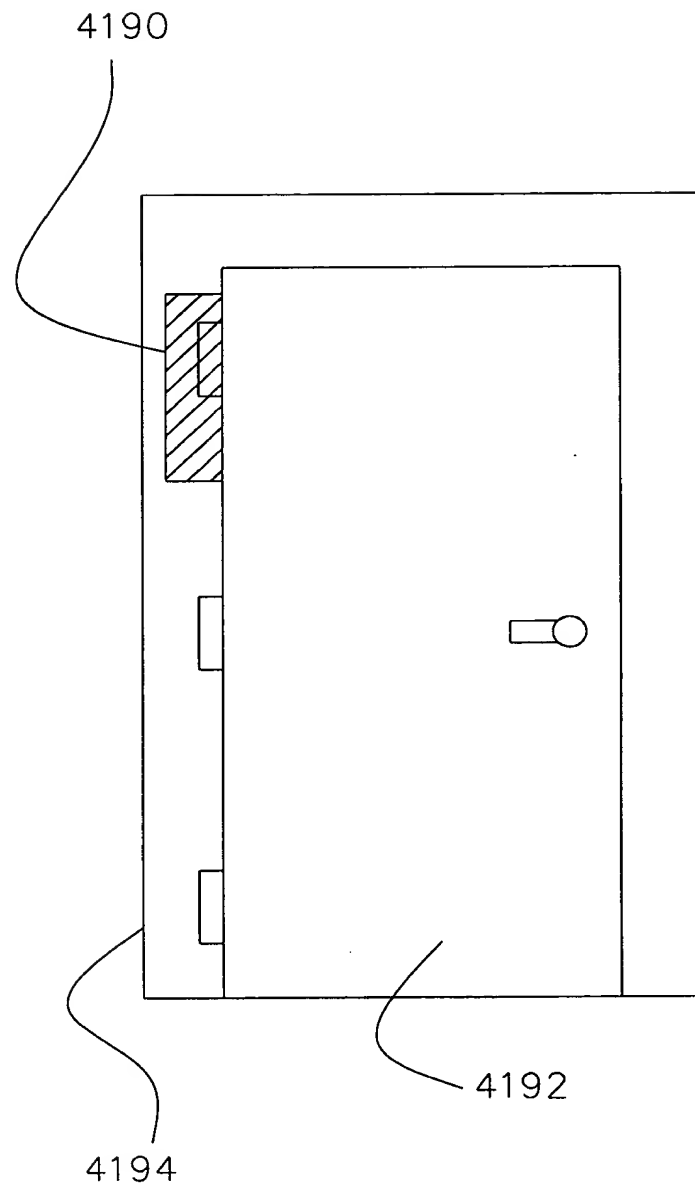


FIG. 52C



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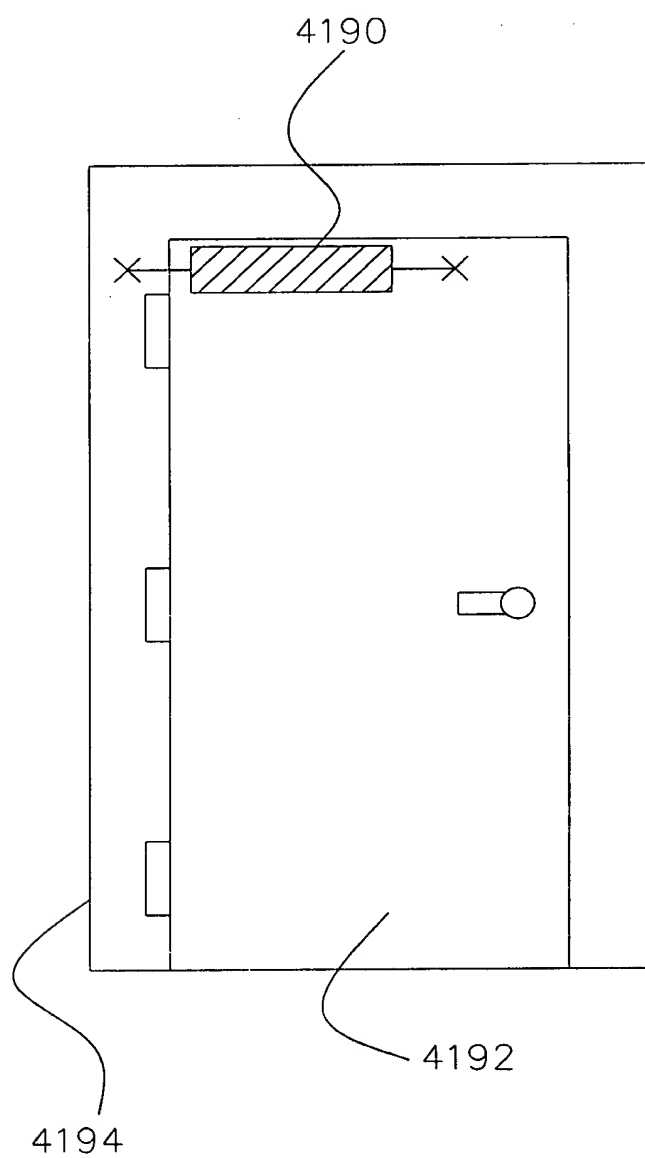


FIG. 52D



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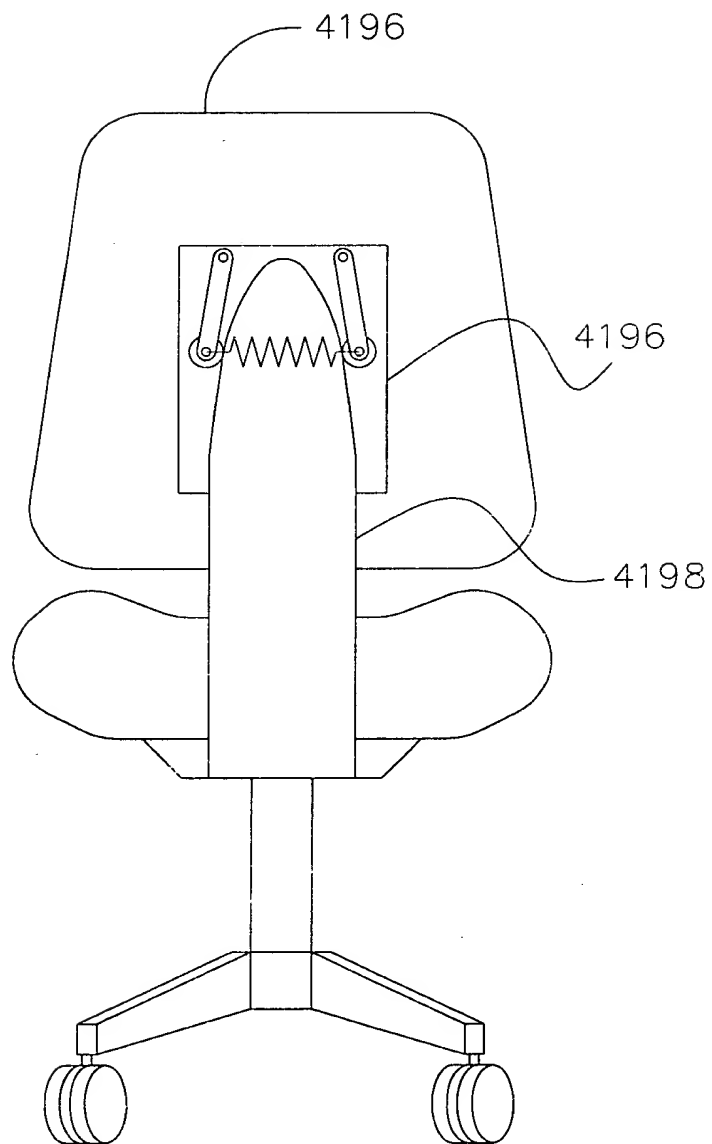


FIG. 53



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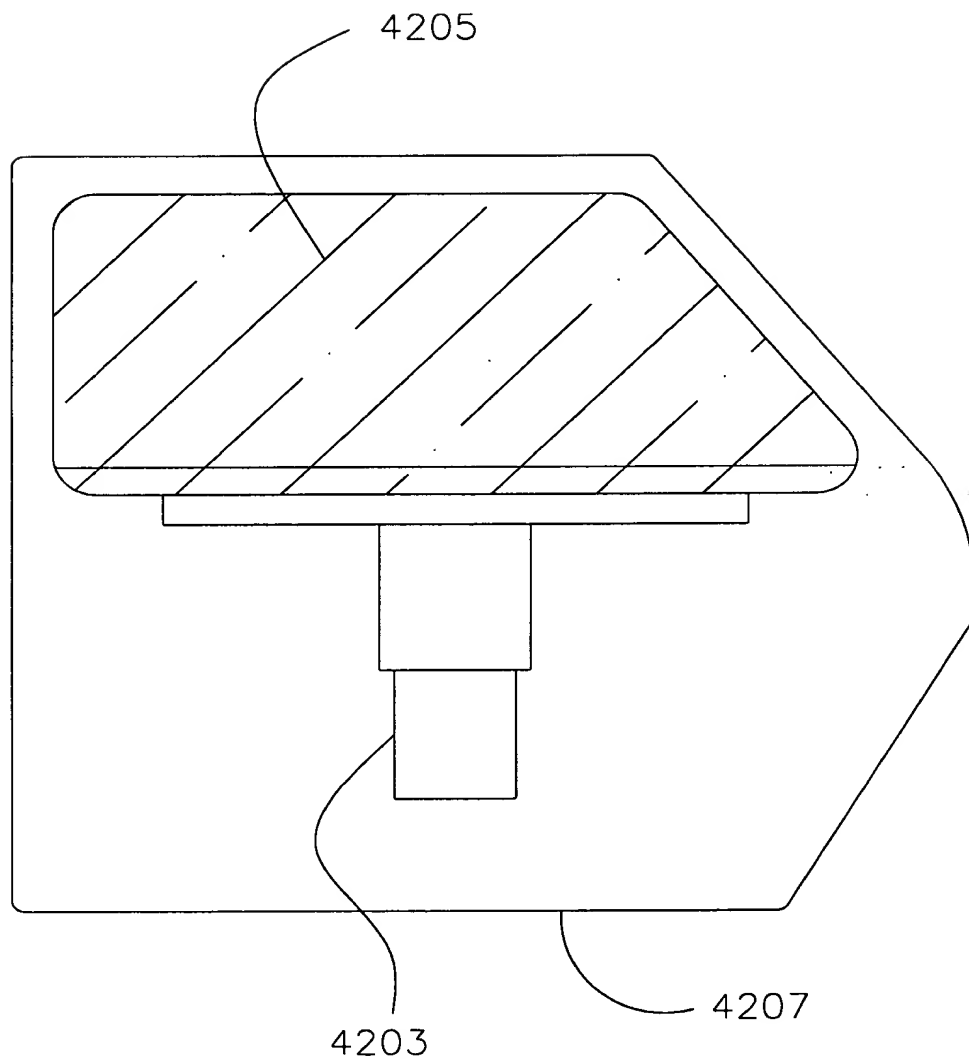


FIG. 54



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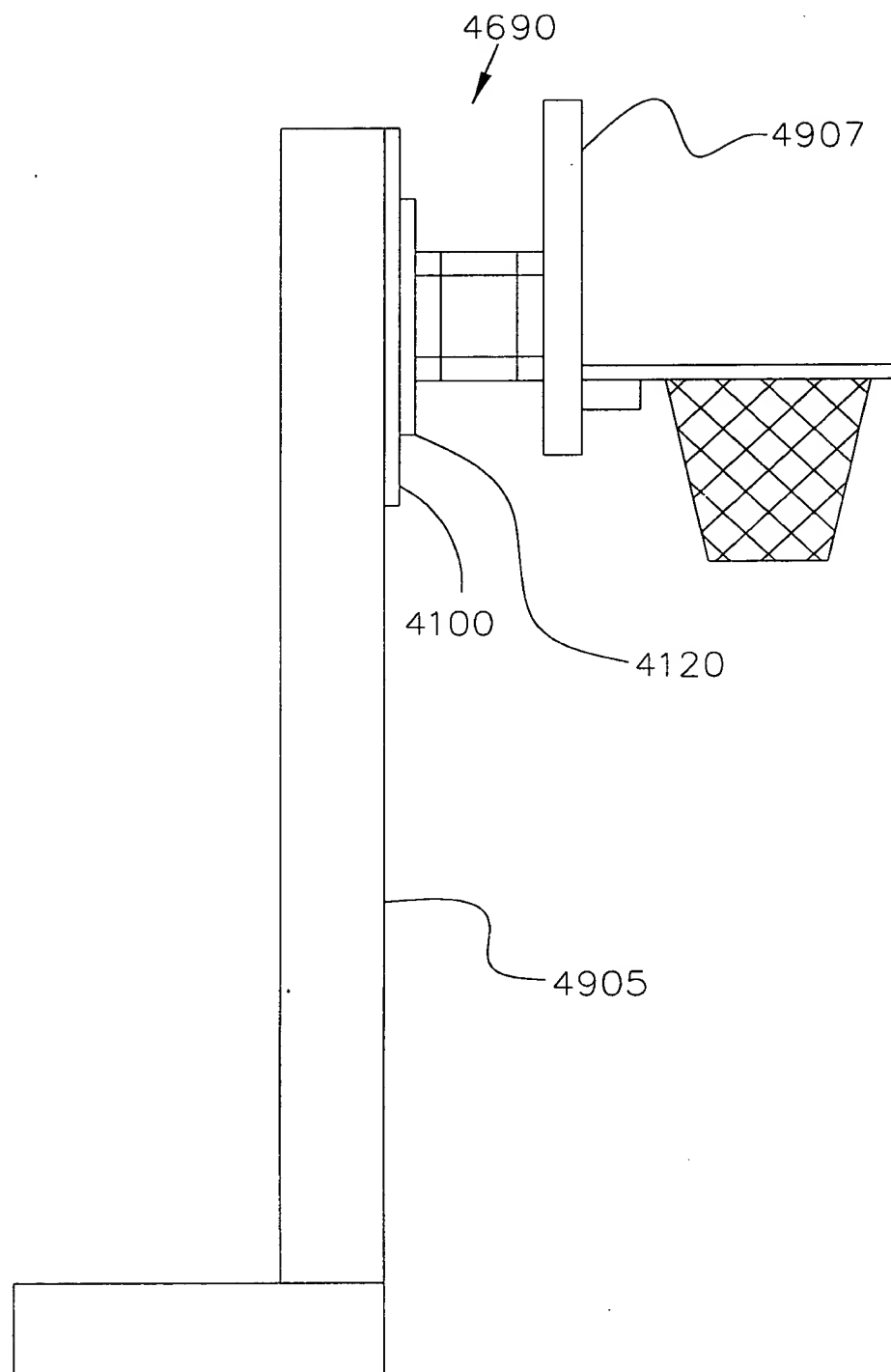


FIG. 55



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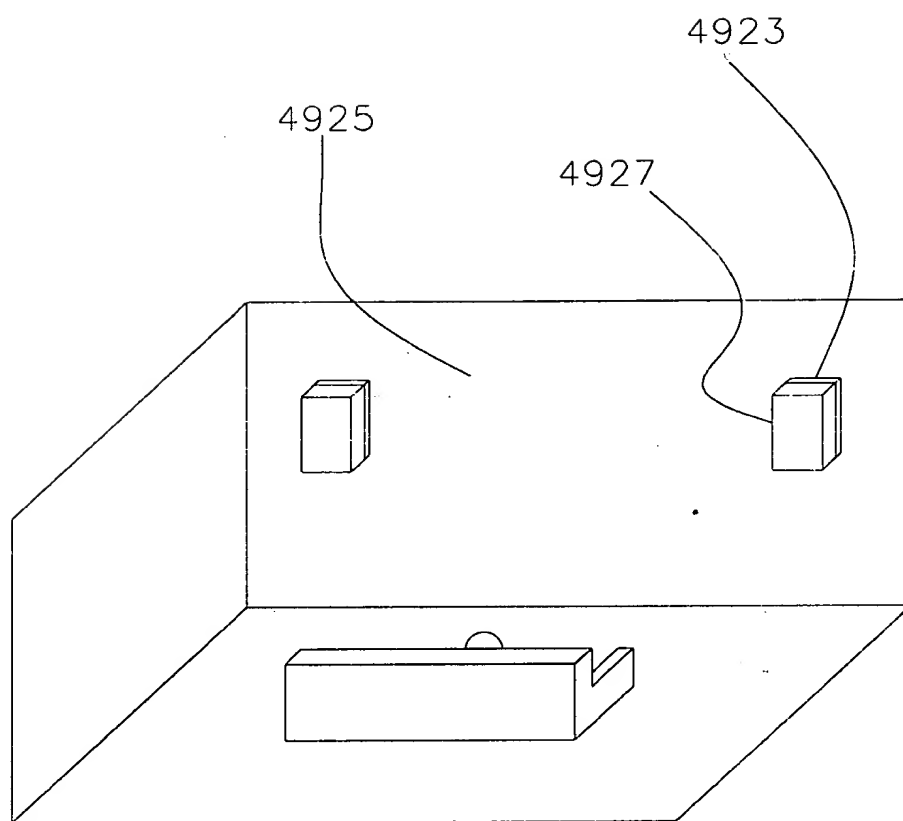


FIG. 56



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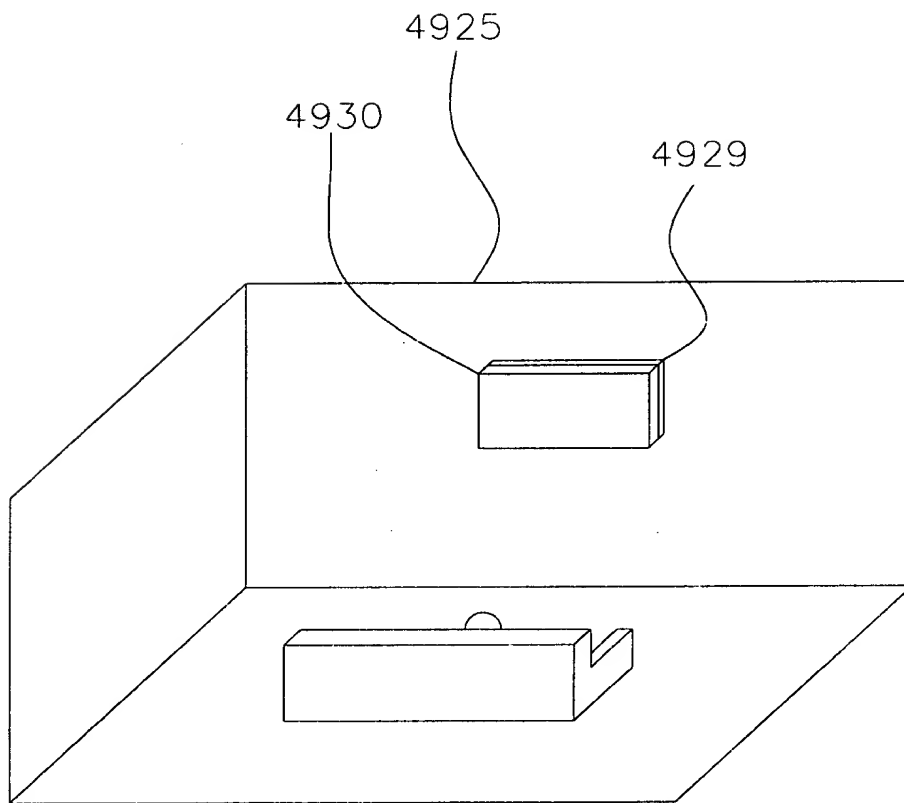


FIG. 57



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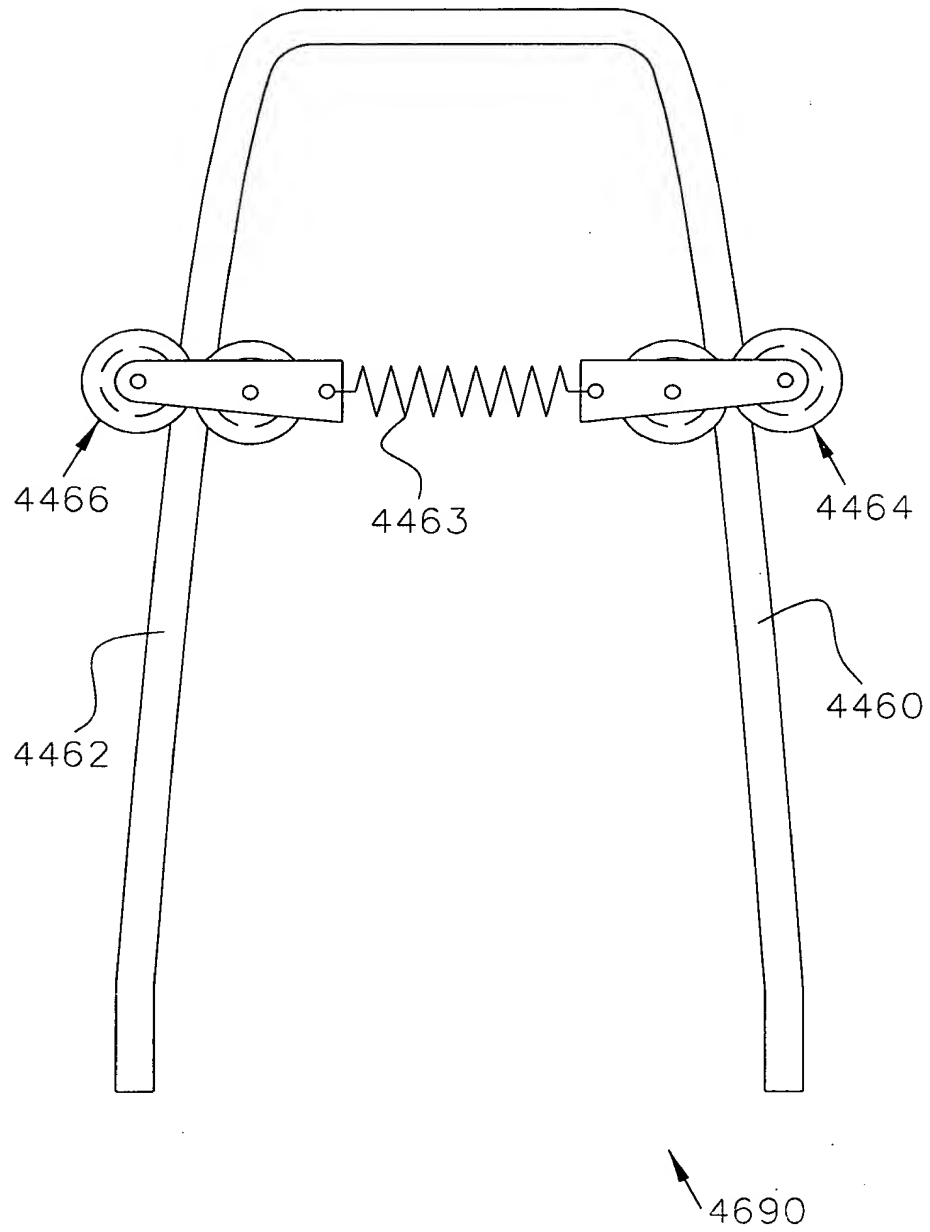


FIG. 58



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Fig. 59

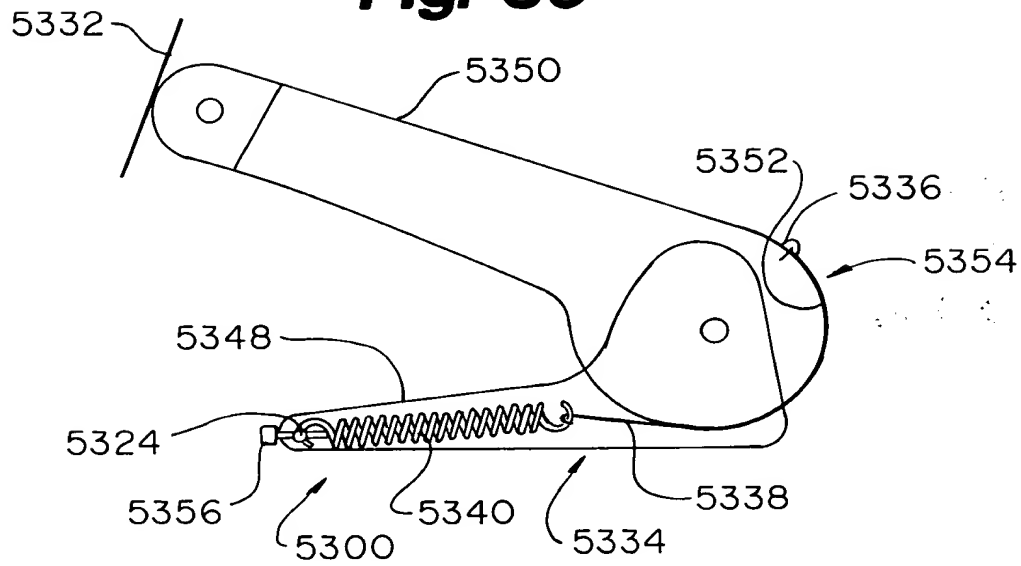
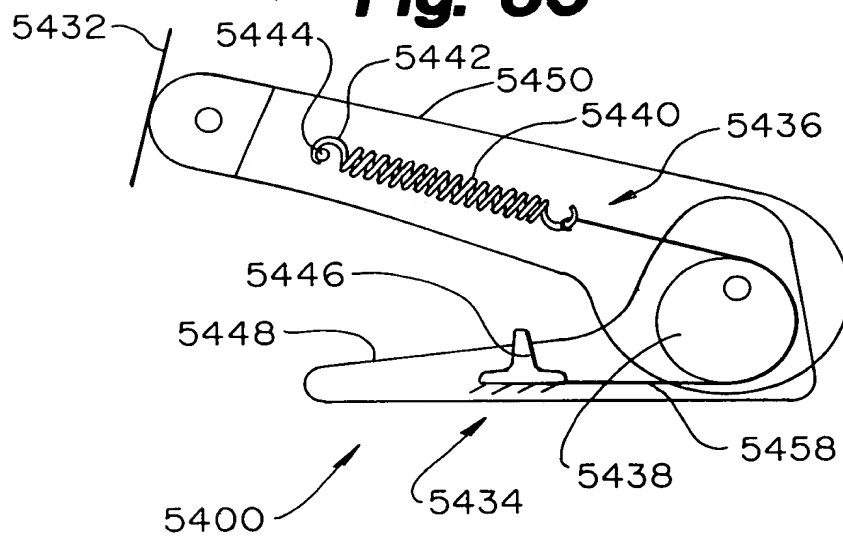


Fig. 60





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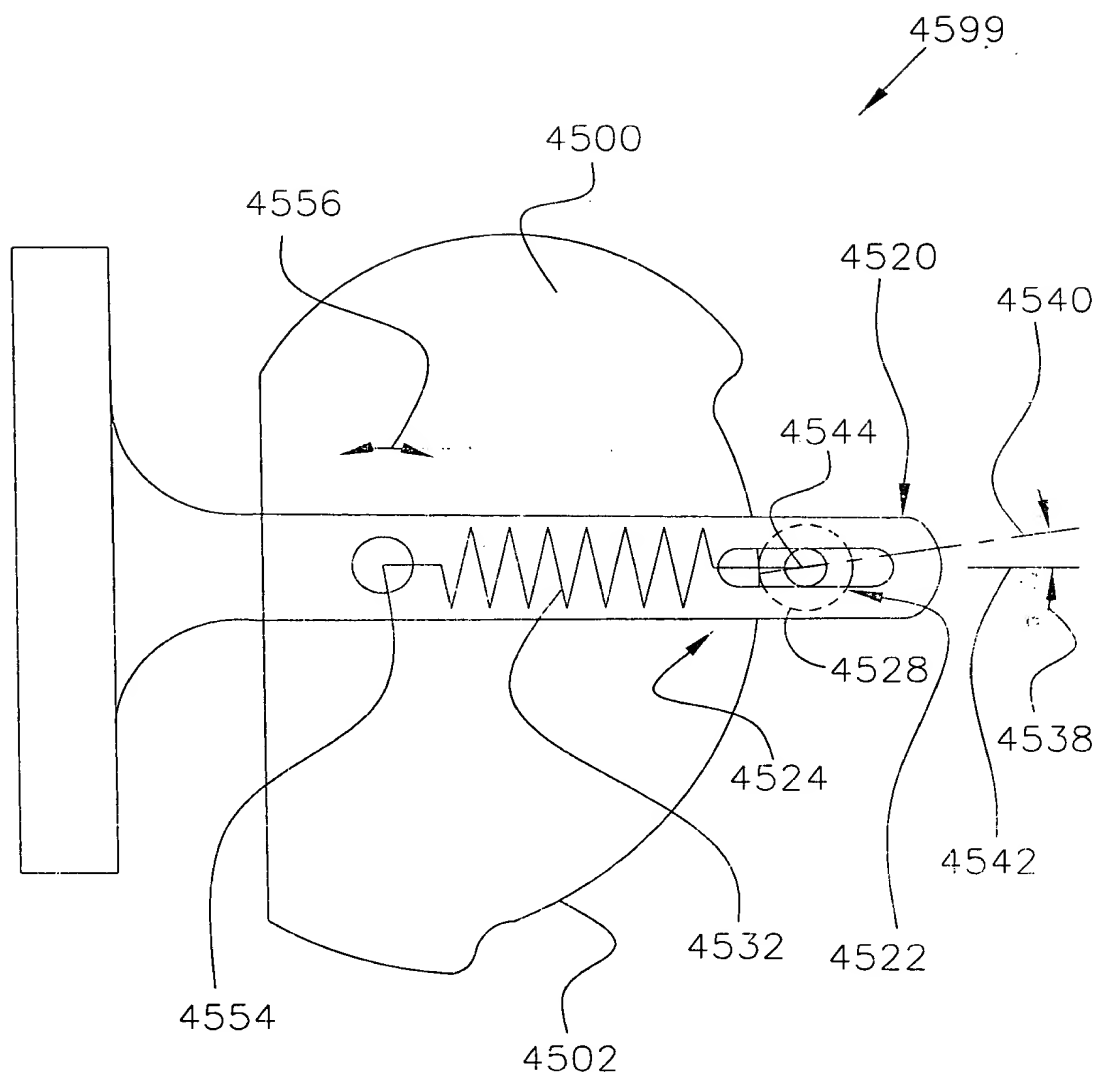


FIG. 61



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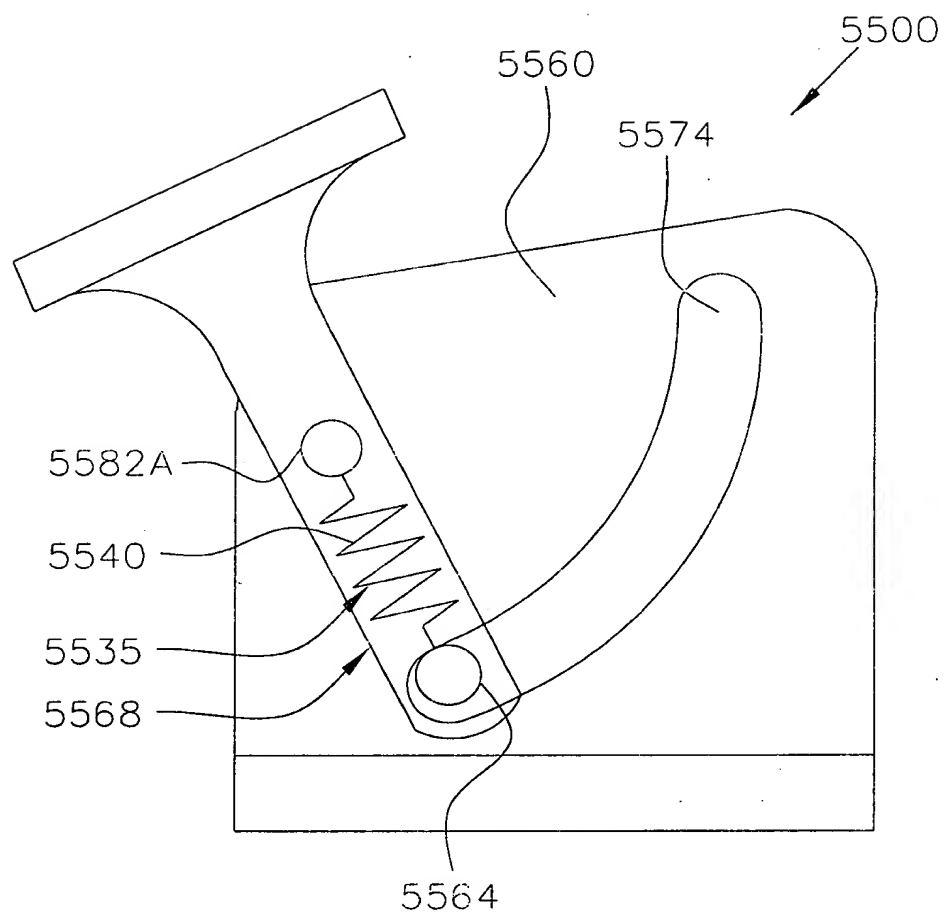


FIG. 62



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GROUP 3000

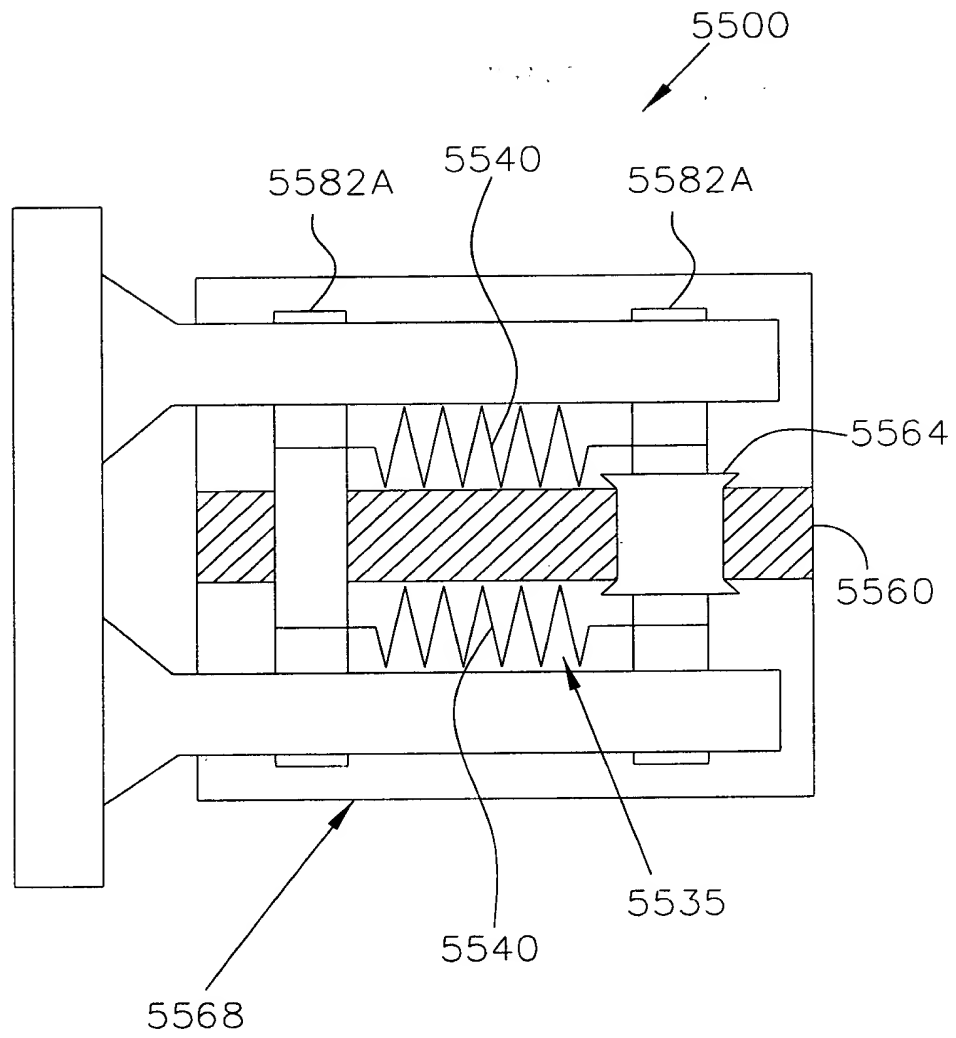


FIG. 63



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Fig. 64

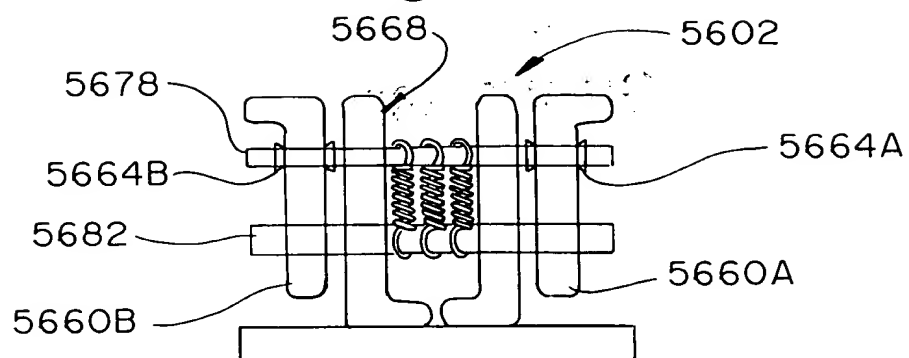
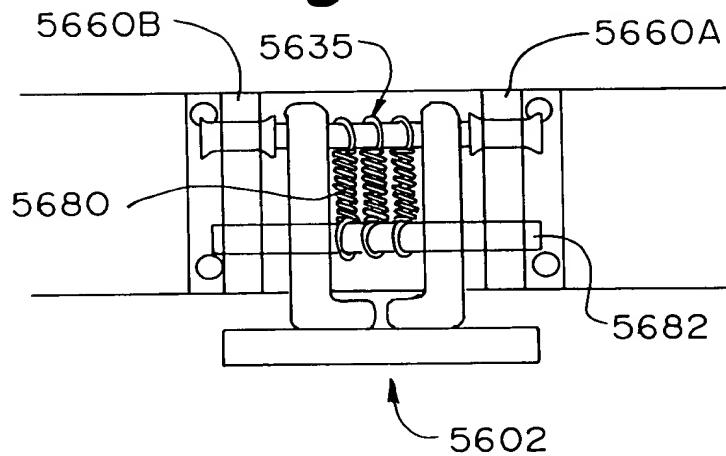


Fig. 65





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